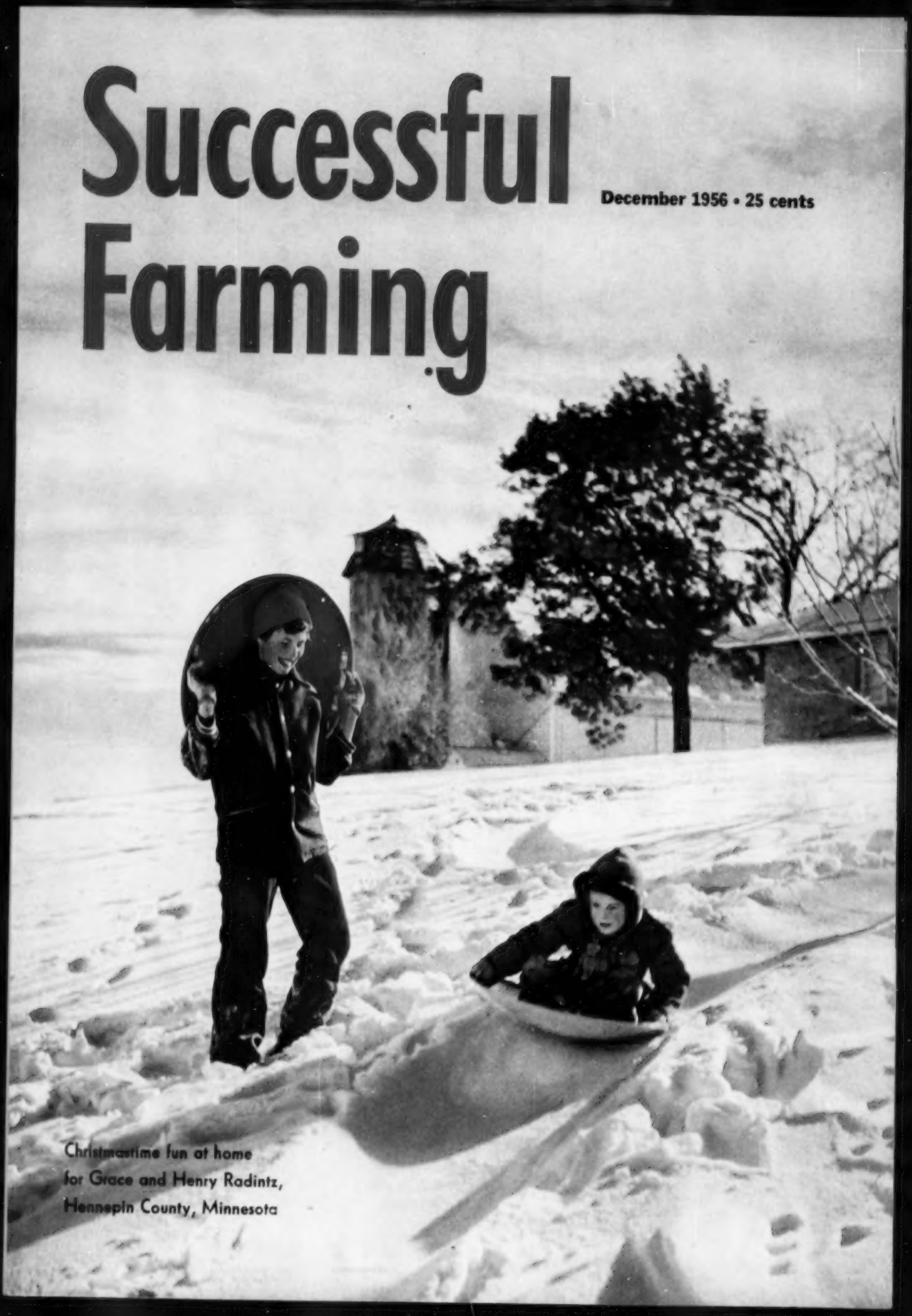
Successful Farming

December 1956 • 25 cents



Christmastime fun at home for Grace and Henry Radintz, Hennepin County, Minnesota

All muscle ...no fat

The Dynamic 4-Plow WD-45 Tractor *with automatic TRACTION BOOSTER system shifts weight instantly to its drive wheels, the way a champion fighter shifts weight on his feet for a knockout punch . . . puts up to 2½ tons total on the rear wheels! Complete with Power-Shift Wheels, SNAP-COUPLER hitch, Two-Clutch Control. Natural-Feel Power Steering optional.*

Remember when Jack Dempsey held the championship of the world . . . pitting 187 pounds of muscle against bulky heavyweights scaling up to 245 pounds?

That's the way it is with tractors today. It's muscle that counts . . . not just size or weight.

The dynamic WD-45 is all muscle—no fat. Fuel-wasting, soil-compacting, tire-wearing, hard-steering "dead" weight has been engineered out . . . *two thousand pounds of it!*

Saving that expensive ton of difference enables you to move faster, do more, save time, make money . . . gives you up to one-third more work-power per dollar . . . plus longer tractor life!

Yes, the 4-plow, 4-row WD-45 tractor is truly a champion worthy of the name. On your farm this trained cost-fighter will make money for you on every job it tackles, and backed by Allis-Chalmers *True Original Parts and Service . . . T-O-P-S . . .* it will always remain in peak condition . . . *TOPS!*

It's easy to own a WD-45. See your Allis-Chalmers dealer today!

ALLIS-CHALMERS, FARM EQUIPMENT DIVISION, MILWAUKEE 1, WISCONSIN

TRACTION BOOSTER AND SNAP-COUPLER ARE ALLIS-CHALMERS TRADEMARKS. ©

ALLIS-CHALMERS

Engineering in Action

NEW 3-T CUSTOM SUBURBANITES take this police car through snow-clogged roads to rescue stranded motorists!

When the big blizzard stormed into New York last March 18th, roads were filled with deep, heavy snow. Thousands of motorists were stranded.

Almost simultaneously, two new-type winter tires arrived in New York. They were Goodyear's great new 3-T Custom Suburbanites.

We rushed them out to New Rochelle, N.Y., and mounted them on the rear wheels of a police emergency car and put them to the test ... over snow-clogged country roads to rescue stranded motorists ... up steep, snow-slick hills to unsnarl jammed up traffic.

How did these new winter tires do it? This new tire's revolutionary new tread—with wide, deep-digging "V-GRIP" notches ... and thousands of tiny traction teeth give the new Custom Suburbanite exceptional grip ... the kind of traction you need for snow, ice, mud. And you'll get more miles of wear—a season more for many motorists! Get new 3-T Custom Suburbanites for the rear wheels of your car. Goodyear, Akron 16, Ohio.

No shovels or cinders needed! This police car has what it takes to pull up a snowed-in driveway—Goodyear's *tractionized* 3-T Custom Suburbanites.

Hi-fidelity tests have proved that the new Custom Suburbanites are much quieter than old-style winter tires. On cleared highways you roll along quietly.

MORE PEOPLE RIDE ON GOODYEAR TIRES THAN ON ANY OTHER KIND!

GOODYEAR TIRES

NEW 3-T CUSTOM SUBURBANITE

GOODYEAR

Look for this nearby Goodyear dealer sign for better tire values ... better tire care ... convenient credit terms.

Suburbanite, T.M., The Goodyear Tire & Rubber Company, Akron, Ohio

SUCCESSFUL FARMING'S NEWS OF THE MONTH

Whipping the wheat surplus?

Washington, D. C.—We're well on the way to whipping the tough wheat surplus—with the help of the soil bank, the drouth, and expanding exports.

With many Southern Plains and Southwest drouth-area farmers using the acreage reserve as a crop insurance device, it now looks like the total 1957 wheat crop will go down to at least 700 million bushels or so. If this happens, the 1957 crop would be almost 300 million bushels less than this year and the first time production went below 800 million bushels since 1940.

Winter wheat growers have put close to 11 million acres into the program. This is equivalent to about 200 million bushels taken out of production. If spring wheat growers contribute another 2 million acres, as U.S.D.A. hopes, it means another 34 million bushels off. Thus, winter wheat production next year could be about 500 million bushels, and spring wheat, about 200 million.

Wheat exports, which have been lagging during the past few years, now appear to be on a slow upward trend. During the past marketing season, exports totaled 345 million bushels. For the new season, U.S.D.A. expects more than 400 million bushels to be shipped abroad.

This would start cutting into the surplus significantly.

Cholera, VE knockout

Chicago—A vesicular exanthema (VE) and hog cholera eradication program is now under consideration by all segments of the swine industry. At a recent conference, ways and means were explored to set up such a program.

Here are some of the highlights of the suggested program:

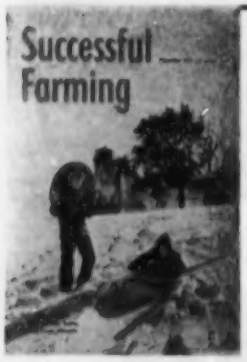
- Authorities agreed that the first step in eradicating hog cholera is outlawing the use of virulent live virus. This would require additional legislative authority. A deadline of January 1, 1958, has been suggested. Several states already have outlawed the use of live virus.
- Stricter enforcement of garbage-cooking laws are needed. Ten percent of the commercially garbage-fed hogs are still being fed raw garbage. Also, garbage-cooking laws should be on the basis of *all* swine diseases, rather than VE alone.

It is estimated that pork producers are losing a potential export market of 70 million pounds of pork through embargoes by foreign countries who fear introduction of VE and hog cholera.

Antibiotic destroys internal parasites

Washington, D. C.—After promising first tests, further research is being conducted on the first antibiotic known to be effective against several internal parasites of animals.

The new antibiotic—hygromycin—destroyed ascarids and other roundworms, whipworms, and possibly others, in tests on swine at the University of Wisconsin. Earlier experiments indicated hygromycin stopped organisms which cause both amoebic dysentery and leptospirosis.



On the cover

Osseo, Minnesota—Temperature of 12 degrees below zero doesn't bother the T. F. Radintz children when snow is right for coasting. Warmly bundled, Henry spins down the front yard slope on a saucer sled, as Grace prepares to shove off.

Paul, 12, and Robert, 19, will join the fun after they help Dad with dairy chores. Inside the lovely Ranch-style home, Mrs. Radintz has warm gingerbread ready for the hungry coasters.

Photograph: Warren Reynolds

New mastitis test

Davis, California—A new testing material for mastitis has been developed by the veterinary staff at the University of California. It makes possible immediate check of each cow and each of her udder's quarters.

The testing material is called the California mastitis reagent. A milk sample is obtained from each quarter in a plastic 4-leaf clover arrangement. Then, a few drops of the reagent are added. If mastitis is present the solution changes to a dark color. The degree of color indicates the degree of mastitis.

5-year corn average—257 bushels per acre

Baldwyn, Mississippi—Lamar Ratliff, the boy who grew 304.4 bushels of corn per acre in 1955, wound up his 5-year program with 257 bushels per acre this year. This makes a 5-year average of a whopping 231 bushels per acre.

Ratliff plowed under 200 pounds of 33 percent ammonium nitrate and 1,500 pounds of 14-14-14. Another 300 pounds of ammonium nitrate was side-dressed. Plot was irrigated 3 times.

Two new beef feeding developments

Ames, Iowa—Two new developments in beef cattle feeding were announced recently at Iowa State College.

1. Researchers found that adding less than 3 ounces of phosphorus per day in the form of dicalcium phosphate, to the present-day recommendations for phosphorus feeding levels boosted average daily gains nearly 15 percent and cut feed cost per pound of gain by 8 percent. The extra-phosphorus cattle also yielded more Choice carcasses.

2. You've heard of tranquilizers for humans—now they're doing it on cattle. Thiouracil added to cattle-fattening rations improved gains a little. The drug reduces activity of the thyroid gland, making the cattle quieter. In the past, drugs that reduced thyroid activity also reduced appetite. However, when the drug was fed with stilbestrol, which increases appetite, the slight increase in gains was obtained—not enough to justify the cost. But it's an area for study.

SUCCESSFUL FARMING DECEMBER 1956
VOLUME 54 NUMBER 12

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Entered as second-class matter October, 1902, at the post office in Des Moines, Iowa, under act of Congress, March 3, 1879.

Published monthly by Meredith Publishing Company, 1716 Locust St., Des Moines 3, Iowa. Rates: New and renewal subscriptions, one year $1 in the United States and possessions, Canada, and Pan-American countries. Other countries, $2 per year.

Printed in U. S. A.

This time of year RFD means

Racing For Deliveries...

THE NEW YORK LIFE AGENT
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IS A GOOD MAN TO KNOW

It may be a mysterious package labeled "Do Not Open Until Christmas," or just a simple card that says "Season's Greetings." But one thing is sure: it's from someone you know—someone who's eager to share with you the warm spirit of Christmas. And that's worth running for *any* day!

During the past year, the men and women who serve as agents for the New York Life Insurance Company made many, many new farm friends while helping them establish greater security through life insurance.

Now, at Christmas time, we'd like each of these new friends of the Company—and all the other farm families we have been privileged to serve over the years—to consider this particular message as our own personal "card" of thanks and best wishes.

It's good to think that it will be tucked in your mail box along with the greetings of all your other friends.

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INSURANCE COMPANY
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makes your hay or silage more valuable

The release of many valuable nutrients in hay, silage and other roughage depends on the activity of rumen bacteria—the "bugs" that help cattle break down and digest all kinds of home-grown feeds.

That's why modern beef and dairy supplements contain Du Pont "Two-Sixty-Two" feed compound—a highly efficient form of urea nitrogen. As a protein source "Two-Sixty-Two" usually costs less. And by stimulating rumen bacteria it adds an important benefit to feeds for sheep and cattle.

As the "bugs" convert "Two-Sixty-Two" to protein, they multiply faster and work harder. Feed energy, otherwise wasted, is unlocked from stems and stalks to produce milk or make beef. Check with your feed man. Be sure your supplement contains "Two-Sixty-Two"—to help you get the most value from the roughage you grow.

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Successful Farming®

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More horsepower for farm cars!
Extra performance for all farm engines!

New 5-rib Champion Spark Plugs with Powerfire electrodes bring great new performance and money-saving benefits to every farm operator who uses gasoline-powered equipment!

Today's new Champion Spark Plugs with Powerfire electrodes are today's best for cars, trucks and all farm equipment.

These new Champions are the same plugs tested by independent engineers in cars that had gone about 10,000 miles without a spark plug change—*with an average increase in road horsepower of 24%!* This means added horsepower for your car. And it means more power for your tractors and other farm equipment, too.

But that's not all! The big advantage of these plugs shows up at the time your equipment gets its hardest use. For then the Powerfire electrode provides new, extra resistance to the burning and pitting that destroys ordinary electrodes, assures more economical farm engine operation.

New 5-rib Champions are the *real big news* in spark plugs. Get them for your car, truck and all your farm equipment . . . today!

New Powerfire electrode stands up better in today's high-power engines. Photo shows how ordinary electrode *(left)* burns away. Champion's Powerfire electrode *(right)*, after identical use, is still good for many more miles of powerful performance!

LOOK FOR 5-RIB

CHAMPION

SPARK PLUGS

CHAMPION SPARK PLUG COMPANY • TOLEDO 1, OHIO

FARM OUTLOOK FOR DECEMBER

This month's highlights

- **Here's 1956-'57 season price forecast crop by crop**
- **U.S.D.A. outlook confirms: Raise more spring pigs**
- **Farm land prices hit new record high**
- **Figure present dairy support level to be continued**
- **Increase in laying flocks could hurt prices**

Grain price forecast

Here's the latest government new grain forecast for prices during the 1956-57 marketing season:

Corn—Average farm price about the same as during the past year, $1.31 a bushel. Second largest crop on record, 3.4 billion bushels, will keep the cash price average at that level despite more corn going into the loan program.

Soybeans—An average at about the loan level, $2.15 a bushel on the farm. While the oil market is good and exports stay high, the record-shattering 470 million-bushel crop will chip a nickel off the year's average price.

C.C.C. has announced it will not sell any soybeans it owns from May through September at less than the higher of the domestic market price or the current price support level plus reasonable carrying charges.

Wheat—Forecast is for a farm average of $2.10 a bushel, 10 cents more than last season. Stronger market means less wheat will go for the $2 loan.

Oats—Figure on prices at least 10 cents a bushel higher than you got last season. Crop is 300 million bushels below last year's 1.5 billion.

Barley—Farm prices are likely to average around $1 a bushel, up 8 cents. The 370 million-bushel crop is 30 million under a year ago.

Note loan deadlines

You can take advantage of C.C.C. loan program protection if you need money—to avoid taking low prices right after harvest.

Here are deadline dates for putting crops under the support program: Soybeans, oats, barley, rye, flaxseed, and sorghum grains, all January 31. Wheat, March 31. Corn, May 31.

Raise more hogs

U.S.D.A. economic forecasters have now firmed up their views on 1957 hog markets. Here's what they see:

Strong markets for hogs this winter and for most of 1957. On an individual farmer basis, they recommend increasing 1957 spring farrowings, as we've said before. Economic indicators, they say, point to the wisdom of more hogs next year than this fall's hog-corn price relationship would have you believe.

Avoid hog price low

Hold hogs for higher January-February prices if they won't get overweight. November-December lows are expected to shift to higher levels early in the new year. But while holding, be ready to sell when prices begin to bulge—for it is in the first months of the year when heaviest discounts are made.

Plant spring wheat

Best bet on spring wheat is to produce all you can on allotment acres. With a big cutback in wheat going into the ground this fall, spring wheat prices next fall are likely to be better than most recent surplus-ridden years.

Use the acreage reserve of the soil bank only as crop insurance—a hedge against drouth. Otherwise, you can probably do better incomewise by staying out.

Land prices go up

Farm land values in nondrouth areas of the Midwest are on the rise once again. Shortly before the elections, the Department of Agriculture released a survey made last summer indicating that land prices nationally hit a new record high.

Last spring land values in the Midwest generally were steady from the fall of 1955, but they spurted up to 2 percent higher in some states this summer. Indications are that land prices won't decline much this winter and chances are they may go even higher by next spring.

Your costs—up

Practically everything you buy will cost more in 1957. The so-called "parity index" (prices you pay for production and family living items, interest, taxes, and wage rates) likely will cross its previous record high registered in the spring of 1952. These costs will gnaw away at your gross:

- Industrial competition for labor will continue to shove up the wages you have to pay competent farm workers.
- Farm real estate taxes will rise because of higher assessments and higher rates.
- Money borrowed for improvements, equipment, and repairs will cost more.
- No income tax relief is in sight.

Big question is whether prices you receive will go up enough to offset higher costs. Probably not. Reason: We're producing too much for market requirements.

Dairy supports—same

Milk flow continues to rise, probably will reach new crest in 1957. You can count on the same level of price support next year as this—to be announced in March. Support has big effect on price.

Have enough layers

Replacement chicks may look cheap next spring, but that's no reason for expanding laying flocks nationally. Concentrate instead on increased production per bird. Total egg production no larger than this year's will make for price improvement, and for profit.

Cattle price trends

- Prices for Prime steers usually hold up well until midwinter.
- Prices of Choice grade slaughter cattle, however, typically decline during December and January.
- Quotations on Good grade cattle normally hold near their fall average through the winter, while prices of cows and other cheap cattle work higher until late spring.

Wool support—62 cents

The government incentive price for shorn wool in the marketing year beginning next April will be 62 cents a pound.

Now! RED CROWN *has* DE-ICER, *too!*

Protection from gas line freezing — at no extra cost!

This Winter both STANDARD Gasolines—RED CROWN Regular as well as WHITE CROWN Premium—contain Standard's amazing De-Icer additive which prevents gas line freezing. De-Icer also prevents freezing in sediment bowls and in fuel line strainers and screens. You get fast, sure starts in any weather!

There is no extra cost for this added protection. So fill your tanks *now* with STANDARD Gasolines and forget about gas line freezing!

Plus . . . Protection Against Corrosion!

Both STANDARD Gasolines also contain Standard's new and exclusive anti-corrosion additive. This additive coats all metal surfaces with an invisible protective film. It prolongs the life of storage tanks—protects fuel systems against corrosion and clogging—greatly reduces required cleaning of fuel screens and filters.

Your Best Gasoline Buy is RED CROWN!

Fast starts . . . quick warm-ups . . . plenty of power . . . clean burning . . . protection from corrosion and gas line freezing—new STANDARD RED CROWN gives you everything you want in a regular grade gasoline for farm power equipment. It's your biggest gasoline bargain!

You get the friendliest, most dependable service, too, from your nearby Standard Oil Man. Call him today.

Powerful
Economical
Trouble-free
Performance

ALL WINTER LONG
with STANDARD GASOLINES!

Try RED CROWN. Then you'll know why thousands of farmers agree...

You expect more from STANDARD and get it!

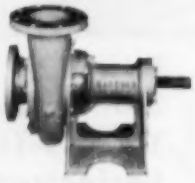
QUALITY PRODUCTS • FRIENDLY SERVICE • DEPENDABLE DELIVERY

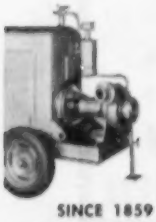
3-inch BL Irrigation Pump—trailer-mounted.

Irrigation Pumping costs less with Gardner-Denver

Gardner-Denver irrigation pumps are designed and built to pump more water per power dollar. That's why, today, more farmers are using Gardner-Denver pumps than ever before. Your local dealer will show you what we mean—or write us.

5-inch Model BL Irrigation Pump—factory lubricated bearings.





3-inch Model HHB Close-Coupled Centrifugal Pump—with engine, trailer-mounted.

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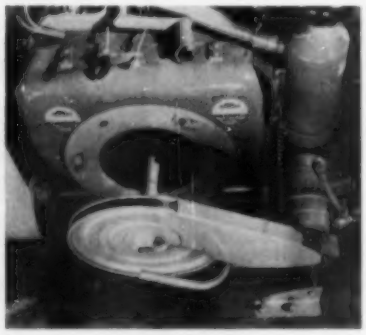
WHAT'S NEW IN FARMING®

New hog, utility shelter. Built in 12′ and 18′ widths, these units are strong, lightweight, portable. Length is 10′9″. Extensions are 10′ 8″ long. The 18′ unit has solid end, 12′ size has hinged door.—*Butler Mfg. Co., Kansas City, Mo.*

Electric starter. Unit is portable, can be installed, it is said, in one minute's time. It dismounts in few seconds for emergency use on other machines.

Power supply comes from 6-volt storage battery on machine or through cable from battery on tractor.—*Start-O-Matic Mfg. Co., 1258 8th St. N., Fargo, N. D.*



Tips you can use today

Feed bunk kit. Round bottom feed bunk is built easily with metal parts available in kit form. All you need are 14, 2x4s for the bunk and 4 short 4x4s for legs. If bunk is to be over 14′ long, you'll need another set of legs.

Completed bunk is 40″ across, 13″ deep, can be disassembled easily.—*Tatge Chemical Co., Box 190, Herington, Kans.*

Hay conditioner. New unit can be used with your present side-mounted or trailer-type mower. Drying time of hay is said to be 30 to 50 percent less when conditioner is used to crack stems.—*Meyer Mfg. Co., Morton, Ill.*

Water system chlorinator. Device attaches to any farm water system, uses household chlorine-bleach to disinfect water supply.

Can also utilize crystals to prevent expensive mineral stains, lime scale, and corrosion.—*Clayton Mark and Co., 1900 Dempster St., Evanston, Ill.*

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These Extra-Production Laying Feeds are brand new—another important service of feed manufacturers based on the latest scientific advances.

They contain the right amount of antibiotic, vitamins, minerals and other important ingredients needed to get the highest, most profitable level of production from your flock. You get all these extra benefits:

- Up to 53 more eggs per hen per year!
- An average of 24 more eggs from each 100 lbs. feed!
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Remember to ask your dealer about Extra-Production Laying Feeds. You'll be hearing and reading a lot about them in the next few months.

GRAND PRIZE worth $15,000

Solar laying house. Power Choring equipment. 1,600 baby chicks. 20,000 lbs. feed free!

. . . THIS COMPLETE LAYING PLANT

erected on your own farm and completely equipped with everything you need to bring you a

$7,500-a-year labor profit

So completely automatic that caring for your flock takes less time than gathering the eggs!

Completely equipped for push-button operation with

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Feeding, cleaning, watering all done automatically. Maintains proper ventilation and temperature. Power Choring by James Mfg. Co. Solar windows by Libbey-Owens-Ford.

PLUS 1,600 Pullet Chicks to Stock Your New House

Your choice of any commercial breed, you also get all the brooder, feeder and water equipment you need to raise them!

AND 20,000 lbs. (10 Tons) Extra-Production Laying Feed

—any brand of your choice—delivered as you need it. This new kind of feed contains Terramycin to give you more eggs than ever before.

5—2nd PRIZES

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Beautiful big 21" set with Transituner remote control or UHF.

30—3rd PRIZES

1 Ton New Extra-Production Laying Feed

Your choice of the many brands that contain Terramycin.

200 OTHER PRIZES

1-lb. Terramycin Poultry Formula

$15 value. For starting chicks, fighting disease, keeping flocks healthy.

Here's all you do to win

Just print your name and address on the coupon (or send a post card) and mail to Terramycin, Box 717, Chicago, Illinois, before March 21, 1957. A drawing will be held by the Lloyd Herrold Co. Winners will be promptly notified by mail.

Anyone 18 years of age or older who owns, operates or now lives on a farm, or who raises poultry is eligible to win one of the prizes. (Exceptions: Employees and their families of Chas. Pfizer & Co., James Mfg. Co., and Libbey-Owens-Ford, their subsidiaries, dealers, dealer employees and advertising agencies.) Only one prize per person. This sweepstakes promotion is subject to Federal, state and local regulations.

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Ten years ago, Mr. & Mrs. America, you made 98 million Bell telephone calls a day. Today, you make over 204 million. Tomorrow? Probably millions more daily . . . and that's going to keep Western Electric installation men plenty busy helping to make it possible.

These men are part of our mobile staff of 20,000 installers. They do the intricate job of installing and final-checking Bell telephone central office switching equipment produced in Western Electric factories. They are fulfilling another of the functions we perform as the manufacturing and supply unit of the Bell System. They illustrate another way Western Electric helps the Bell System achieve its goal: providing you with good, dependable telephone service.

Western Electric

MANUFACTURING AND SUPPLY UNIT OF THE BELL SYSTEM

FRIEND TO FRIEND

- **Ohio farmers fly to cattle country**
- **We need a good test for milk protein**
- **Farm field days have a mighty strong appeal**

● When a group of Ohio friends headed **westward** this fall to buy their feeder cattle, they stopped to see *Successful Farming* folks and have lunch. We were impressed and deeply pleased. We hope they got a good deal on their cattle in the **Nebraska Sandhills** country. Modern farmers do remarkable things these days, but it isn't often we find them chartering a **special plane** for a business trip. They are all busy men, as we know from working with several of them. We hope they will come again.

As the party left for Omaha, two of our editors, Sherwood DeForest and Dick Hanson, wished each a pleasant trip. These two men are at the left in the picture below. On the steps entering the plane are Nancy Silverthorn, Indianapolis, stewardess; Isaac Neuenschwander, Allen County; and A. J. Penick, Hebron. Others (left to right) are George Pratte, Wapakoneta; Roy R. Brown, Newark; Larry Riffe, Johnstown; C. E. Whetstone, Lima; C. C. Craig, Hume; Floyd Buell, Sunbury; Don Marshall, Harrod; Marion Martin, Hebron; Charles W. Slater, Hebron; Robert Polter, La Fayette; Emory Basinger, Lima; J. L. Lowe, Kenton; Carl Mak, Wapakoneta; Lawrence Begg, Columbus Grove; C. L. Settlemire, Lima; E. C. Reese, Johnstown; Richard Fairall, Hanover; J. C. Begg, Columbus Grove; Clarence Clark, Hebron; Lee Riffe, Johnstown; Don Davis, Wapakoneta, and Douglas A. Davis, Wapakoneta.

● The increasing public demand for skim milk should stimulate a lot of **research** on the possibilities of breeding for high total solids not fat in milk. The relationship between butterfat content and total solids not fat varies so widely as to make a **plan to buy** on the basis of the latter quite difficult.

After all, it's the **protein** content of milk which is the valuable part. With its minerals, milk is indispensable for children and old people. Then why not **breed cows** that will produce high-protein milk? Of immediate need is a practical commercial test for solids not fat. A good one seems likely soon.

● Great field days attended by **thousands** of farmers and their friends are a popular form of farm outing just before cold days arrive. Out in the open fields there is plenty of room to get around and no parking charges. Sometimes it's quite a walk to see everything. The National Plowing Match held in Iowa this year drew 200,000 people. There were many other events in the Cornbelt which also drew their throngs.

Farmers feel these are pretty much their **own shows** and for months, and sometimes years, toil on plans. Then come the hectic weeks of putting the plans on the ground. A field day is a splendid demonstration of leadership and of **cooperation** between farmers, small town and city folks interested in farming and better farm living.

Kirk Fox

Our Ohio friends stopped to see us on their way to Nebraska

Farmer Cole makes a fresh start

Follow the lead of Farmer Cole. Check up on the opportunities in Florida for all types of farming. Last year, Florida farm income increased 10% while U.S. average showed a decrease of 10%.

Truck farmers benefit by year 'round mild climate, ample rainfall, long growing seasons, multiple crop production, and a variety of responsive soils.

Florida also needs poultrymen, dairymen, livestock farmers and nurserymen. Experience and adequate capital are necessary, of course.

Plan a sightseeing vacation in Florida soon. Visit the farm areas. Meanwhile, mail coupon for colorful 40-page booklet "Florida Farming."

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January 29 — February 9, 1957

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Precision built, rugged electric hand saw. Lightweight, easy-to-use. ¾-inch stroke, 50% longer, cuts up to 2 inches in thickness; circle cuts, too. Change blades quickly—Complete with Rip Guide and Blade, $42.50.

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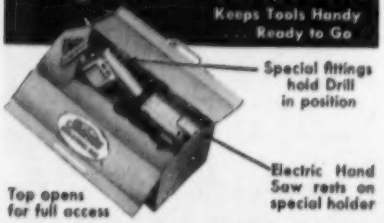

Now a practical all metal Add-A-Tool box. Plenty of storage space for tools and accessories. Closes with handle type fastener. Get it with either Sunbeam Drillmaster Drill or Hand Saw, or separately at $8.50.

NOW AVAILABLE! 3 MONEY SAVING OFFERS

SAVE $5.50 Sensational new Sunbeam Hand Saw with rip guide and one blade, $42.50, set of 4 assorted blades $4.45 and the deluxe Add-A-Tool box $8.50—
A $55.45 value for only..... $49.95

SAVE $4.20 The $27.95 Drillmaster Drill with ¼-inch Geared Chuck, a $5.25 set of 10 high speed drill bits and the $8.50 deluxe Add-A-Tool box—
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SAVE $4.20 The $25.95 Drillmaster Drill with ¼-inch Hex-Key Chuck, a $5.25 set of 10 high speed drill bits and the $8.50 deluxe Add-A-Tool box—
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DRILLMASTER DRILL — GRINDER SANDER HONER

Powerful, cool running, higher torque. With ¼" Geared Chuck, $27.95; Hex-Key Chuck, $25.95.

The most practical grinder made—it grinds, sands, *hones*. 110V AC-DC series wound motor develops up to ⅓ H.P. $49.75.

Look for the MARK OF QUALITY Sunbeam

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Canada, Toronto 18—Prices slightly higher in Canada

THE FARMER'S WASHINGTON®

- **Help in deciding how to vote in corn referendum**
- **Conservation reserve deadline is November 30**
- **Test of value of soil bank is coming soon**

Your corn vote. You should give serious consideration to your vote on the corn program in the December allotment-base acreage referendum.

Briefly, a "yes" vote means you prefer to continue with the soil bank corn base. If ⅔ of those voting approve, the 51-million-acre base will go into effect for 1957 and continue for the life of the acreage reserve—and corn loses its "basic" status. To be eligible for support, ranging between 0 and 90 percent of parity, you'd have to put land equal to 15 percent of your corn base into the soil bank.

A "no" vote means you prefer the regular allotment program. If less than ⅔ approve the base acreage deal, allotments would be in effect next year, corn would retain its basic status, and supports would be between 75 and 90 percent of parity. With the big 3.4 billion bushel corn crop coming up, it means support at 75 percent and allotments probably below the 43.3 million acres set for this year before the soil bank was born.

Under the base acreage program—the "yes" vote—you could get soil bank pay for reducing acreage 15 percent below the base and still have as many acres of corn as though you had only complied with the corn allotment. You could put (1) 15 percent of your corn land into the acreage reserve, (2) acreage equal to 15 percent of the corn base into the conservation reserve, or (3) a combination.

If you put land equal to 15 percent of the base into the conservation reserve, under which contracts run for 3, 5, or 10 years, *you could produce corn on the entire soil bank corn base acreage and still be eligible for full price support.*

With allotments, to get support, you'd have to cut acreage to at least this year's level. But to get in on acreage reserve payments, *you would have to underplant that allotment.*

Conservation reserve. If you act before November 30, you can still get in on the 1956 conservation reserve program and get payments. Because of the rush of business on A.S.C. offices, the U.S.D.A. extended the time in which you can apply from the original October 15 deadline.

Here's how the contracts work: If you sign up land for 3 years, you can only get annual rent payment for land on which vegetative cover already exists, but no conservation practice payment. If you sign up for 5 years, you get the per-acre rent on land already in cover, or the rent plus cost-share payment on land where practices will be started. If you sign a 10-year contract, you get rent and cost-share only on land where cover is to be started.

To get in on the 1956 program, land you want in the reserve cannot have been cropped or grazed this year. You also must have reduced production of corn or wheat to qualify. If you don't sign up this year, you can start a contract in 1957, up to the March 15 sign-up deadline.

End of excise tax? Wartime excise taxes on transportation—costing farmers close to $1 billion a year—may at last be ended. But whatever benefits you get from tax repeal probably will be offset by higher rail and truck charges.

Most railroads have filed intentions with the Interstate Commerce Commission to boost rates 15 percent. Following suit, truck rate-setting organizations have begun hearings on proposals to boost their rates a like amount. While transportation charges are expected to go up as a result, they may not go as high as rails and trucks want.

November hearings on excise taxes, by the Forand subcommittee of the House Ways and Means Committee, were flooded with demands for repeal. Farm organizations and other user representatives are joining rail and truck interests in an all-out campaign to kill these levies. They say 1957 is the crucial year to do it—or they might go on forever.

Soil bank value. The real test of how useful the soil bank is in helping you adjust production with relatively little pain will come in the next few months. Until now the program has been little more than a "crash" operation—a gadgeted emergency program which had to be started immediately because of political pressures.

You will be able to start signing up corn land and spring wheat land for the 1957 acreage reserve from January through March 15—with variations depending upon the planting season in your state.

If sign-up of productive land is widespread, it will indicate the program is useful to you and that our surpluses generally can be expected to be cut to size by the time the acreage reserve program ends in 1959. If sign-up is light, it will indicate the program is of little use either to farmers or to the government in crop reduction efforts. In that case, watch for drastic changes to be advocated by the administration.

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Here is Newness for the Sake of Greatness—

Newest Buick Yet

To the automobile industry's great tradition of introducing annual new car models, Buick has contributed more than its share over the years.

But the 1957 Buicks go beyond that – to a newness vastly more than tradition alone demands.

For these are cars totally new in the literal sense – and wholly different in control and obedience from anything you have ever known before.

They are new in ways you can see.

In new bodies. In new windshields. In new silhouette lines.

In new bumpers, new hoods, new roof lines, new safety-padded instrument panels, new controls, new safety steering wheels, new color-mating of interiors with exteriors.

They are new in ways you can feel.

In the action of an advanced new Variable Pitch Dynaflow* – *instant* Dynaflow – so responsive, so full-torque, so smoothly flexible in "Drive" that the need for "Low" has been practically eliminated.

In the answer of brilliant new V8 engines—snugged lower in the hip-high hoods of these sleek cars, yet sized to a 364-cubic-inch displacement for an all-time high in horsepower and compression.

In the spectacular surety of a new ride, a new handling, a new braking, a new steering.

And each of these spanking-bright '57 Buicks – ROADMASTER, SUPER, CENTURY, SPECIAL, and a new Caballero – is new in other things to delight you, thrill you, sparkle your eyes.

Just go see them – now on display at your Buick dealer's – and discover all that's new in the *newest* new Buick ever built.

BUICK *Division of* GENERAL MOTORS

1957 Buick
Now on Display
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**New Advanced Variable Pitch Dynaflow is the only Dynaflow Buick builds today. It is standard on Roadmaster, Super and Century—optional at modest extra cost on the Special.*

Which dog is the grandfather?

These Gaines-fed Cocker Spaniels are living proof that Homogenized Gaines Meal can help your dog enjoy

A LONGER PRIME OF LIFE!

Eyes bright, energy bounding – what a difference Gaines can make in your dog, young or old. It's extra-rich in meaty flavor and packed with meat proteins, vitamins, minerals and every other food essential science knows your dog needs. Gaines is *homogenized* to guarantee balanced nourishment, feeding after feeding!

Which dog is the grandfather? It's 10-year-old Bobo (top), still as lively as grandson Champ (bottom). Both dogs are fed Homogenized Gaines Meal—and don't they look it! Why not help *your* dog enjoy *a longer prime of life* . . . get Homogenized Gaines Meal today!

nourishes every inch of your dog

A Product of General Foods

Could fire ruin

Your Christmas?

It's one of the wonderful traditions of Christmas to decorate your home, church, and school with bright lights, gaily trimmed trees, branches of cedar, and streamers of crepe paper. However, this tradition can be the starting place for a fire that could ruin your Christmas holidays. So when planning your decorations, plan for safety.

Christmas trees. Always buy a fresh tree, and then keep it in a cold place until ready to set it up. Don't try to flameproof your tree with chemical solutions. Saw off diagonally at least an inch of trunk, then place the tree in a water-, sand-, or earth-filled container.

Keep your tree away from any source of heat such as the fireplace, radiators, and television sets. Check the wiring of all tree lights for defects.

It's a good idea to have the switch for turning the light on and off away from the tree; and always turn the lights off when no one is in the room.

Be sure that the metallic icicles do not touch any of the light sockets. Don't operate electrical toys or trains around the tree, for a flying spark could send the tree up in flames. Dispose of the tree as soon as the needles start to drop off.

Decorations. Each year there are more new and varied decorations, so you shouldn't have any trouble finding something you like that is marked flameproof or nonflammable. It doesn't cost any more to buy flame-resistant crepe paper or other decorative materials, so keep looking until you see the label.

If decorating a church or school for a party, take the decorations down as soon as the party is over. Your local fire department will be glad to check your church or school decorations to see that there is no immediate danger.

Wiring. Here is one of the first places a fire can break out. Before you string lights up, lay them out on the floor and check for frayed spots. If your old string of lights is in bad condition, replace them with a string that has the Underwriters' Laboratories seal.

Avoid overloading circuits and running extension cords across a room. Never place a flexible extension cord under the rug, for the underside of the rug will rub off the protective covering on wires.

Do not use indoor strings of lights outside. Outside lighting requires waterproof electric cords and sockets, and lights which will not crack when wet.

Fire extinguishers. In the home, church, or school it is advisable to have a fire extinguisher handy at all times. Make sure every member of the family, or of a committee, knows how to operate it.

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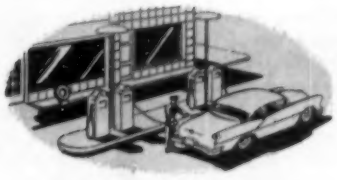
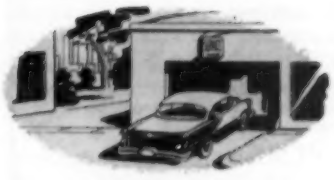


SERVICE STATIONS



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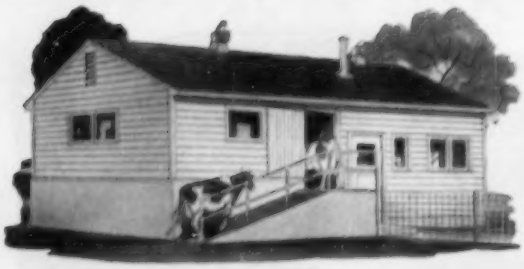

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This modern milking parlor is planned so that one man can milk 25 cows per hour, using two milking units. In the 4-Square Service you will find many such buildings designed to meet special needs.

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Weyerhaeuser engineers designed this low-cost, portable brooder to utilize standard items of ready-to-use lumber. It is a good example of how long life and economy go hand in hand with correct design and construction.

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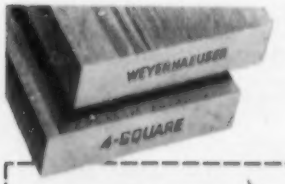
Here is proof that a farm home can be beautiful as well as practical. It is one of many expertly planned farm homes in the 4-Square Farm Building Service.

See all the plans before you build . . . in the WEYERHAEUSER 4-SQUARE

Farm Building Books

● Learn how these new farm buildings can help you increase production and save chore time. Simply fill in and mail the coupon below to receive free booklets showing scores of farm buildings, farm homes, and lumber-built equipment items in the Weyerhaeuser 4-Square Farm Building Service. After looking over this material, make it a point to visit the office of your Weyerhaeuser 4-Square Lumber Dealer. He's the man who can give you *all* the facts about the expert planning that makes these farm buildings, homes and equipment items ideal for modern farms. Mail the coupon today!



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Store grass silage in Plastic bags

Photograph: Briggs

The day may not be far off when grass silage is kept in airtight plastic bags.

Research at the University of Minnesota by Rodney A. Briggs shows some definite advantages for plastic bag storage of silage. In tests, two plastic bags were filled with grass silage last summer and sealed by tying at the top. One held 8 tons of silage, the other 16. The bags were made of polyvinylchloride plastic.

Upon opening the two bags after about a year's storage, the researchers found the silage in both bags of excellent quality and highly palatable. Furthermore, there was no surface spoilage. All the silage in the bags was fed.

Total dry matter loss was about half as much as in the best upright silos—8.5 percent compared with losses of 20 and 25 percent with trench silos and up to 50 percent with stacks.

A disadvantage of storing in the plastic bags is the fact that present emptying methods involve cutting the bag open, thus making it difficult to save for re-use a second year. If proper emptying methods could be developed, researchers believe it should be possible to use one bag 2 or 3 seasons. After the bag has been filled 2 or 3 times, it begins to lose its airtight ability because of wear and tear and the reaction of the sunlight on the plastic.

Though plastic bags may be expensive as replacement for ordinary silos, they would be valuable for storing extra silage for use in a dry season, for pasture-clipping in a heavy pasture year, or to increase the storage capacity to take care of temporary increases of livestock.

"I did not pile all the luggage on your tools! I took them out at home to make more room."

Who Sets Livestock Prices?

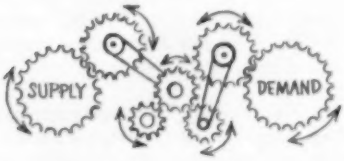
by FRANCIS A. KUTISH
Extension Economist
IOWA STATE COLLEGE

A year ago, with hog prices dropping toward a dime a pound, a Corn Belt farm editor wrote:

"Present hog prices were made almost a year ago when sows were bred for 1955 spring litters. And present breeding plans are determining what hog prices will be in the fall of 1956."

In other words, supply is a big part of the answer to the question: "Who (or what) sets livestock prices?" The other part is demand—how much consumers can, or will, spend for the meat you produce.

Sounds simple, doesn't it? Trouble is, though, that neither supply nor demand is just one easy-to-see thing. Both are made up of many moving parts . . . and each part keeps changing speed and direction.



It's the way all the pieces happen to fit together at the time you sell that determines how much you get for your livestock.

The supply-and-demand machine can look mighty complicated. And it isn't always easy to figure out just what it's doing. But we can clear up much of the mystery by taking a good look at the main gears.

Let's start with demand:

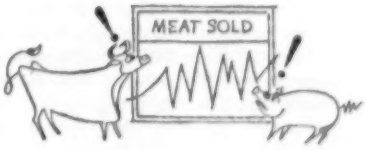
Main thing here is the number of dollars in consumer meat budgets. That depends on total income, because meat-eaters keep spending about the same percentage of their earnings for meat.

But consumer income doesn't change much from one day or week or month to the next. So when livestock marketings go up, about the same number of dollars are stretched over a larger meat supply—and prices have to give. Then when marketings go down, consumers pay higher prices for the smaller meat supply.

Weather, religious belief, seasonal habits, personal taste, the availability and cost of many foods which can be used in place of meat—these also have a bearing on how much Mrs. Homemaker spends at the meat counter.

Now let's look at supply:

Each livestock raiser has his own ideas about how much to produce and when to sell. With several million separate decisions being made, there's bound to be a lot of ups and downs in the amount and kind of meat sold.



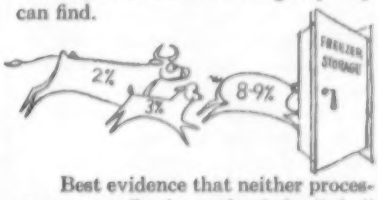
For example: Production—and therefore marketing—runs in cycles over a period of years and changes seasonally within a year. There are wide shifts from day-to-day and week-to-week, too—because of rain, snow, heat, drouth, holidays, crop conditions or your own opinions on the best time to sell.

Put these demand and supply gears together and it's easy to see how suppliers and demanders—producers and consumers—determine livestock and meat prices. Does this mean that the folks in between—meat packers and retailers—have no say at all?

No; but it *does* mean that their influence on prices is small and temporary—because they neither produce nor consume livestock products.

Storage of meat by packers, for instance, can affect supplies of certain kinds and cuts during the short periods when meat moves into freezer storage or out again. But the net influence is small over the long run—peak storage seldoms exceeds 2 per cent of a year's output of beef, 3 per cent of lamb and mutton, 8 to 9 per cent of pork.

Many producers ask this question: Don't buyers sometimes get bargaining breaks because they have "inside dope" on market conditions or because competition at some points is scarce? The answer is "no"—unless livestock raisers fail to take advantage of all the marketing information available to them, or don't shop around for the best outlet and the best marketing help they can find.



Best evidence that neither processor nor retailer is much of the "who" in the question, "Who sets livestock prices?" is that both have lots of competition: More than 3,000 packers and 10,000 other commercial killers; and over 300,000 retail stores where meat is sold.

That means no one meat packer can get away with low-price buying—or retailer with high-price selling—for very long. If they didn't get back into line in a hurry, informed producers and consumers would simply deal with someone else.

• • • • • •

Mr. Kutish analyzes meat supply and demand in more detail in a booklet called "What Governs Livestock Prices?" For your free copy, write to Agricultural Research Department, Swift & Company, Chicago 9, Illinois.

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• • •

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In Business for Your Safety

SUCCESSFUL FARMING REPORT

How to get social security

—*if someone else works your farm*

By August G. Eckhardt, Attorney
University of Wisconsin

When farm operators first became eligible to qualify for social security benefits, the farmer who was nearing age 65—or who was over 65—had an excellent investment possibility available. If he could qualify for social security payments, by making a very small tax payment he could receive monthly income for life.

But many farm owners already had turned over the operation of their farms to sons or other farmers. The problem for these owners who weren't actively farming was—and is—to qualify. The reason qualifying is a problem is that possession of many of these farms has been given the farm operator on a crop-share arrangement—with the agreement stating that the crops or the income will be shared. And the social security law says:

Farmers cannot qualify on rental income. No one can obtain the benefits of social security by paying a tax on "rentals from real estate." Before the 1956 amendments to the law, if the owner shared the farm income with a farm operator, the share paid to the owner was rent. Even if the owner paid a social security tax on such income, when he later filed a claim for social security benefits *his claim would be refused* because the income on which he had paid the tax was not the proper kind of income—it was *rent*.

Those in charge of the social security program took the attitude that sharing arrangements which provided that the son or other operator was to raise a crop or livestock and divide that crop or livestock, or the proceeds, with the owner were leases and would not permit the father to obtain social security benefits.

Avoiding a lease arrangement. During 1955, farm owners who did not work their land were advised to change their agreement (1) so that they *hired* the son or other farmer to work the farm, or (2) so that the owner and operator were partners. Under either of these plans, both the owner and the operator would be required to pay the social security tax and would qualify for social security benefits. Unless the owner took some such steps to avoid the lease arrangement, he would not be entitled to social security benefits as the law was worded during 1955.

Congress corrects the situation. It did not make sense that a farmer had to change the wording of his agreement—without making any real change in its terms—in order to come under social security. Consequently, the last session of Congress amended the Social Security Act to provide *that after 1955 the owner can qualify for social security benefits even though his only income is from a share of the livestock or crops which are produced on the farm.* No change in the usual arrangement is necessary. But . . .

The owner must participate. There are two requirements which must be met by the owner: (1) the agreement with the tenant must provide that the owner will participate in the *production* or the *management of production* of the crops or livestock, and (2) the owner must actually carry out the terms of the agreement and help in the production or management.

The law uses the term "material participation" in describing what part the owner must play in the farming business in order to be entitled to social security payments in this situation.

What is meant by "material participation." Committees of Congress discussed what part the owner would have to take in running and working the farm.

The committee of the House of Representatives stated that the owner must do more than merely furnish tools, equipment, supplies, and animals, and also must do more than merely select the crops or livestock to be produced.

The Senate Committee stated what the owner should do. " . . . in any case in which the owner . . . establishes the fact that he periodically advises or consults with (the operator) . . . as to the production of the commodities and also establishes the fact that he periodically inspects the production activities on the land he will have presented strong evidence of the existence of the degree of participation (that is required). . . . If the owner . . . also establishes the fact that he furnishes a substantial portion of the machinery, implements, and livestock used in the production of the commodities or that he furnishes a part of the expense (other than labor expense) involved in the production of the commodities, the committee feels that he will have established the existence of the degree of participation contemplated . . ."

How the owner meets these tests. Most father-son and owner-operator arrangements result in the owner taking an

[*Turn to page 24*

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not just the "normal" one

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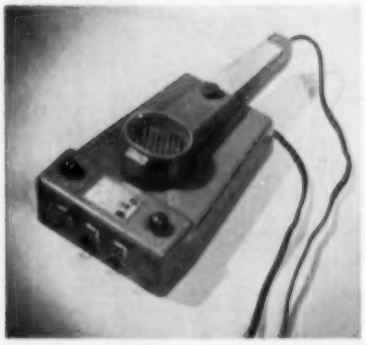
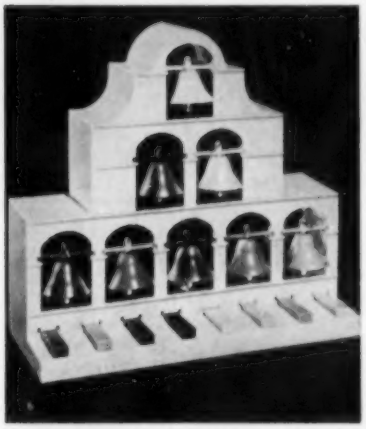


Audio engineer lets you talk to electric train like real dispatcher to make it go, stop, and back up with this transmitter. Ppd., $5.95.—*Magic Mold, 467 Livonia Ave., Brooklyn 17, N.Y.*



Mission bells, each a different color, ring out each note of scale. Keyboard colors match bells, press key to ring out a tune. Ppd., $4.98.—*Here's How Co., 27 E. 22 St., New York 10, N.Y.*

New tricycle design reflects rocket styling with long, low sweeping lines. At toy departments, $15.95 to $24.95.—*Junior Toy Corp., of American Machine and Foundry Co., New York 16, N.Y.*

Photographs: Stanley

Erector set with parts to make elaborate equipment, even walking robot with eyes that glow, arms that swing. Model 12½ available at toy departments, $65.—*A. C. Gilbert Co., New Haven, Conn.*

Marionettes Robin Hood, Good Time Charley are operated by simple controls. Easy to make perform. At toy departments, $5.98.—*Hazelle's Marionettes, 905 E. 10th St., Kansas City 6, Mo.*

Catching a

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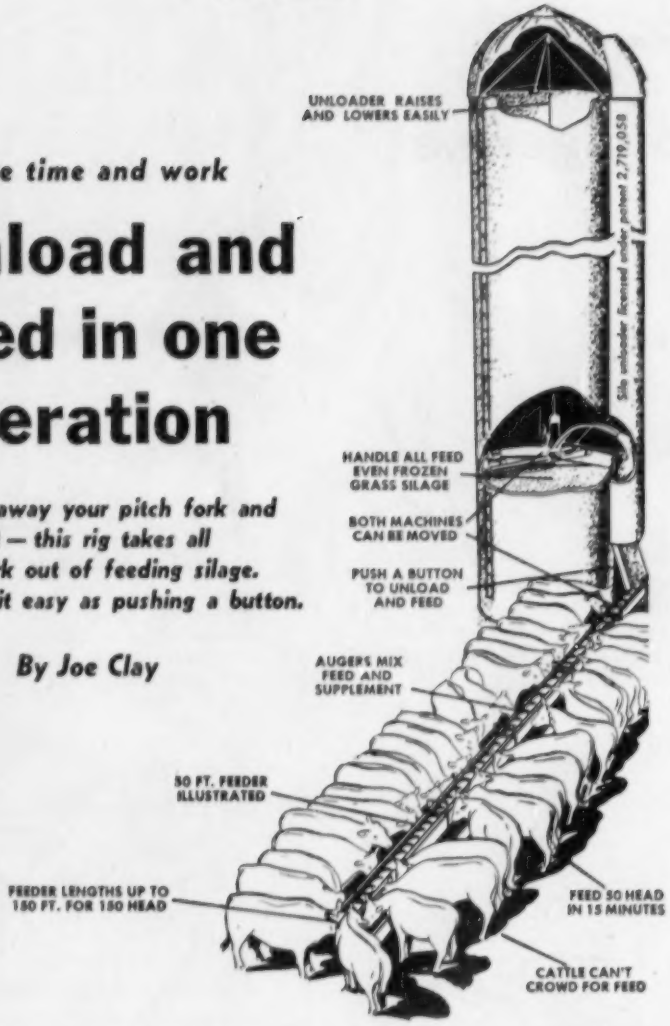
Unload and feed in one operation

Throw away your pitch fork and liniment — this rig takes all the work out of feeding silage. Makes it easy as pushing a button.

By Joe Clay



What a slick set-up for feeding cattle! The mechanical feeder and silo unloader combination shown above feeds 50 head in 15 minutes—you just push a button. It handles any silage, even grass . . . can change frozen silage into fluffy, palatable feed.

This new system of feeding-without-labor is so practical it can fit any farm, large or small. When you figure time and work saved the cost is low—and a few cents a day pays for all electrical power needed.

Mechanical unloading and feeding can take a big load off the farm owner—can leave him extra time for other jobs. The renter, too, can profit from this work-saving combination. Both the silo unloader and mechanical feeder are portable—can be easily moved to new locations.

Silo unloaders, the first half of this big pair, eliminate one of the toughest, most disagreeable jobs on the farm—climbing up and down silos and pitching silage. The machine fits any diameter silo from 10′ to 20′ . . simply by adding extensions. Add the mechanical feeder and you have a real hard-working pair. This feeder fits into any operation—universal joints allow augers to carry feed around corners . . . off at any angle from the silo. No special bunks are needed. You can install this feeder in your present bunks.

Sounds like a dream for tomorrow? Not at all, it's here today . . . now . . . to help you farm better, faster and easier. Write for complete facts on mechanical feeding and how it fits your farm. Every question answered. Facts sent free on request.

Free Facts on Mechanical Feeding
For the modern story on mechanical, work-free feeding write for Joe Clay's new bulletins on silo unloaders and mechanical feeders. Yours free. Write today to Clay Equipment Corp., 1268 Reed St., Cedar Falls, Iowa. Booklets also available on Barn Cleaners, Crop Driers and Milking Parlor Stalls. (Specify booklets wanted when you write.)

WORK-FREE FEEDING is here — with this mechanical feeder. Coupled with a silo unloader it unloads, mixes and delivers feed for 50 head in 15 minutes or less. All you do is push a button.

Social security

From page 20

active interest in the farming business, consulting with the son or operator on such matters as to what is to be raised and what animals should be sold, looking over the farm whenever he visits it, furnishing some of the machinery and livestock, paying some of the expense, and frequently the owner even helps with the actual working of the farm when he is needed and able. Thus, the owner should be entitled to social security coverage.

Keep in mind, though, that the law says that the *agreement must provide* that the owner will take a part in production and management. It is not enough that the owner actually does help run the farm.

In order to be sure the owner can collect when he makes his claim for benefits, he should have his agreement with the operator written and signed by both parties. That agreement should provide that the owner will perform certain acts to help run the farm.

In order to remind the owner of the part he plays, in the event he is questioned about it when he applies for benefits, he should keep a notebook in which he jots down some of his acts of participation as the year progresses.

In this way there can be no successful dispute with the owner or with his family as to his qualifying for benefits—it can be shown that the owner *agreed to help* with the farm and that he actually *did help*.

Handy gate latch

This handy, animalproof gate latch was built by Donald Nelson, Des Moines County, Iowa. The latch automatically closes itself since the long part of the latch will swing downward. To open the gate, just raise the latch high enough to allow the gate to slip by. The height which the latch must be raised to open can be regulated by moving the pivot bolt farther or closer to edge of the gate.

"Now here's what I mean by a farmer's tractor"

"Let me say right off, I've always been partial to Oliver. But the way I look at it, so's Oliver been partial to me. It just stands to reason. I'm their big business—*me*, the farmer. Why, right here where I'm standing, I can reach out and touch a dozen things that show where Oliver's got the farmer in mind. The power steering, for one. 'Hydra-lectric' controls. The rubber spring seat. Now there's even a power-shift to change the rear wheel spacing! And the Independently Controlled PTO—the others are *still* catching up with that one. So when you talk about a *farmer's* tractor, I just naturally think about Oliver—I know Oliver thinks about me. Oliver gives me the power to produce at the lowest possible cost."

Buy your new tractor
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"Pay as you Produce"
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Ask your OLIVER Dealer

YOUR OLIVER DEALER REMEMBERS: "Oliver has *always* thought of the farmer first. The very first gasoline tractor was an Oliver. The first line of diesels—*Oliver*. Look to Oliver first—for the finest in farm machinery."

The Oliver Corporation, 400 W. Madison St., Chicago 6, Illinois.

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FIRST SHOWING... NEW DODGE

4 pick-up models,
up to 8,800 lbs. G.V.W.
204 V-8 horsepower.

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- **NEW giant-power V-8 engines!**
- **NEW push-button driving!**
- **NEW higher load capacities!**
- **NEW *Forward* Look styling!**

Get set to take the wheel of a great *new* kind of farm truck—with *more* V-8 power and *more* load capacity—with *more* eager-to-go snap than any other make on the road!

From stakes and pick-ups to heavy-duty 4-wheel-drive models, you can count on today's new low-priced V-8 Dodge *Power Giants* to give you more truck per dollar, to haul bigger farm loads with greater ease.

New short-stroke Chrysler-engineered V-8's— with exclusive Power-Dome combustion—deliver more miles per gallon, full power on *regular* gas. Increased power in famous, dependable 6's, too.

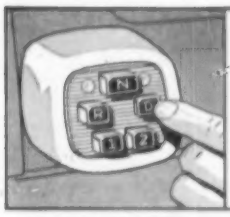
Push-button automatic transmission is still another great plus you get only in new Dodge *Power Giants.**

Test-drive a *Power Giant*—V-8 or 6—soon! Get your Dodge dealer's deal *before* you decide on your new farm truck.

**Available on all low-tonnage models.*

DODGE TRUCKS

WITH THE *FORWARD* LOOK



NEW PUSH-BUTTON DRIVING

First in any truck! Simple, sure, trouble-free. Just push a button, shifting is automatic. Saves time, makes driving easier, less tiring.*

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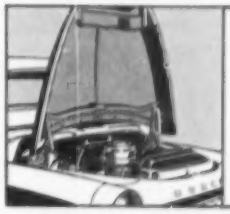
Industry's largest, for real stretch-out comfort. All-new seat design permits adjustment of back cushion and seat height, plus normal slide positioning.



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Exclusive full-opening alligator hood can be raised 90° for easiest, fastest engine servicing, or opened half-way for routine oil and water checks.

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The Original AMAZING

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OF AMARILLO, TEXAS

Will the $1.25 support on noncompliance corn affect your livestock program?

Your neighbors say

In looking at the long-range view of my farming plans, I think the program will hamper my operation. I want to shift to grassland farming, but if I put land into the Soil Bank, I couldn't use it. And I would probably need this feed for my expanded cattle program during the 6 or more years of the sign-up period. I do not plan to sign up next year.—Harry Spicher, Eau Claire, Wisconsin.

I don't think corn will be any cheaper because of the Soil Bank program. In fact, in this area, the noncompliance support price might strengthen the price of corn at market time. Most farmers in this area don't try to get in under corn acreage allotments because they feed most of their grain to livestock.—Harold Alfredson, Route 1, Sugar Grove, Illinois.

Farmers who lack grain-storage facilities will have to sell at harvest time on the open market and perhaps at a lower price than the $1.25 noncompliance support price. However, in the long run, the Soil Bank plan will probably strengthen the corn price to the disadvantage of us feeders.—Harlow Witt, Melbourne, Iowa.

The program might help some farmers who think the government payment might amount to more than they could make on an average crop. In principle, the program looks good, but actual results depend almost entirely on how it's administered. We don't see a place for it in our operations right now. We feed out about 300 hogs yearly and have 700 acres in seed corn and grain production. —Edwin Blaney, Madison, Wisconsin.

Leslie Larson sums up his opinions about 'Stilbosol'-fortified supplements in this manner: "My experience with 'Stilbosol' over the past two years has been one of cheaper gains, and more gains per day."

"I never had daily gains like these heifers gave me"

53 heifers average 2¾ lbs. daily gain for 225 days—although on full feed only 75 days. Cost of gain only 15¢ per pound over all, 19¢ while on full feed.

By Eugene S. Hahnel

Leslie Larson, who farms 600 acres near Erwin, S. D., likes to feed 150 head of cattle a year. Usually, about two-thirds of them are heifers.

During the 1955-56 feeding season, Larson ran 53 heifers on stalks and stubble plus 3 to 4 pounds of grain (per head per day) from November 1 to mid-December. From then until April 1 they were in drylot getting the same amount of grain and all the silage and alfalfa-brome hay they would eat.

Starting April 1, they went on full feed of ground ear corn, cracked shelled corn, alfalfa-brome hay, and 'Stilbosol'-fortified supplement. Larson says that his heifers gained well over 3 pounds per day while on full feed.

"I never have had cattle go to market with the finish these heifers carried, especially on the amount of feed they took in," Mr. Larson declared. "Feeding supplement with 'Stilbosol' sure made my grain go farther. I never had daily gains like these heifers gave me. They just quieted down and put on beef."

Larson shows his 'Stilbosol'-fortified ration to D. E. Shanks (right), his feed manufacturer's representative. "I do business with my feed manufacturer because I know they have a quality product, and that they'll have new feeding advances in their feed," summarized Mr. Larson.

Larson uses this self-feeder for full feeding. He mixes his ration by elevating corn and supplement into the self-feeder from a self-unloading grain box. He reports no trouble with heifers separating supplement from grain. Mr. Larson is in his 22nd year of feeding cattle for market.

Stilbosol

(Diethylstilbestrol Premix, Lilly)

Lilly

'Stilbosol' is Eli Lilly and Company's trademark for Diethylstilbestrol Premix which is manufactured and sold under exclusive license granted by the Iowa State College Research Foundation, Inc., under its U. S. Patent No. 2751303.

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Lice, Ticks
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Mange Mites

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Also a **SHOW COAT** Spray!... Excellent conditioner of hair and hide! Gives animals a beautiful, glossy coat, free from scale and scurf.

FREE OFFER!...Complete catalog showing various types of *Cattle Oilers* (back-rubbers), and Livestock Sprayers, *all at new low prices!* Also Big 24-Pg. Illustrated *Stock-Pest Manual* sent free! Write—

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It's wonderful the way Chewing-Gum Laxative acts chiefly to

REMOVE WASTE —NOT GOOD FOOD

Here's a secret millions have discovered about FEEN-A-MINT, the wonderfully different chewing-gum laxative.

FEEN-A-MINT is different because you chew it. It's different, too, because it removes mostly waste—not good food! FEEN-A-MINT does not work in the stomach, where your food is being digested. That's why it does not take away a lot of the good food you need for energy.

Doctors know that FEEN-A-MINT works chiefly in the lower bowel...removes mostly waste, not good food!

So to feel like a million, do as millions do. Chew delicious FEEN-A-MINT...and feel full of life and energy! Get FEEN-A-MINT...for as little as 12¢.

Feen-a-mint
THE CHEWING-GUM LAXATIVE

NEEDED: New terms to describe

The new look in beef

By Kenneth Fulk

What is lean meat? Time after time we are told the consumer wants lean meat. Lean meat is not from unfattened livestock. Nor is it meat that has no outside covering or fat deposited in between the muscle fiber (marbling). Meat *must* have some fat to make it palatable and tender. But, at the same time, meat must have a minimum of outside fat covering. The important thing is to get the fat in the right places and in the right amount.

We need a new word to describe this new look in beef.

A prominent cattle feeder says that anyone can have high-dressing cattle, if he gets them too fat and shrinks them unmercifully before they are weighed. *Dressing percentage should be an outmoded measure of carcass value.* Dressing percentage is the percent of a live animal that is bone, fat, and meat. Only the meat is of much value. In studying meat type we should cut out the primal cuts—the loin, rib, round, chuck, plate, and brisket—and trim them and determine the actual yield of meat. The market value should be placed on each cut to determine the *actual carcass value.* The loin, rib, and round make up about one-half of the weight of the carcass but represent two-thirds to three-fourths of its value.

In making loin-eye tracings of cattle, I have been amazed at the variation of loin, in the size of loin-eye muscle, and the variation of outside covering of these loin eyes. In order to compare cattle in this respect I have worked out what might be called the "meat-fat" ratio.

The meat-fat ratio is the meat in the loin eye present per square inch of fat on a 4-inch strip over the loin-eye muscle. Because of the irregularity of the top of the loin muscle it is necessary to use an area rather than the depth of fat at any one point.

Last year at the International, 64 carcass steers were shown. A competent grader divided the carcasses into grades as follows: 14 Prime, 15 high Choice, 17 Choice, 10 low Choice, 3 high Good, 4 Good, and 1 low Good.

The meat-fat ratio of the 14 Prime beef carcasses ranged from 1.9 to 4.59—or from 1.9 bites (square inch) of meat per bite of fat to 4.59 bites of meat per bite of fat. All of these cattle were Prime. *Look at the consumer preference we could gain if all Prime cattle had a 4.59 ratio.* The average meat-fat ratio of these 14 steers was 2.69.

In the less-finished cattle, we get a higher ratio. For that reason a meat-fat ratio is only important to compare meat of the same degree of finish. We need to work out standard meat-fat ratios for each grade. The meat-fat ratio is only one of the tools we should be using to determine quality in meat. We need many more.

To compete with other foods we must continually be striving to recognize quality in beef, to improve this quality through breeding and feeding, to find the strains of desirable beef quality that are efficient feed converters, and to find the strains which give us the fastest and most economical gains.

"What on earth did you drag home this time?"

This Christmas buy cartons of Luckies

So nice to give...

to get ... to serve ... to enjoy!

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Here! New Task·Force 57 Chevrolet Trucks

FIRST with the MOST modern features

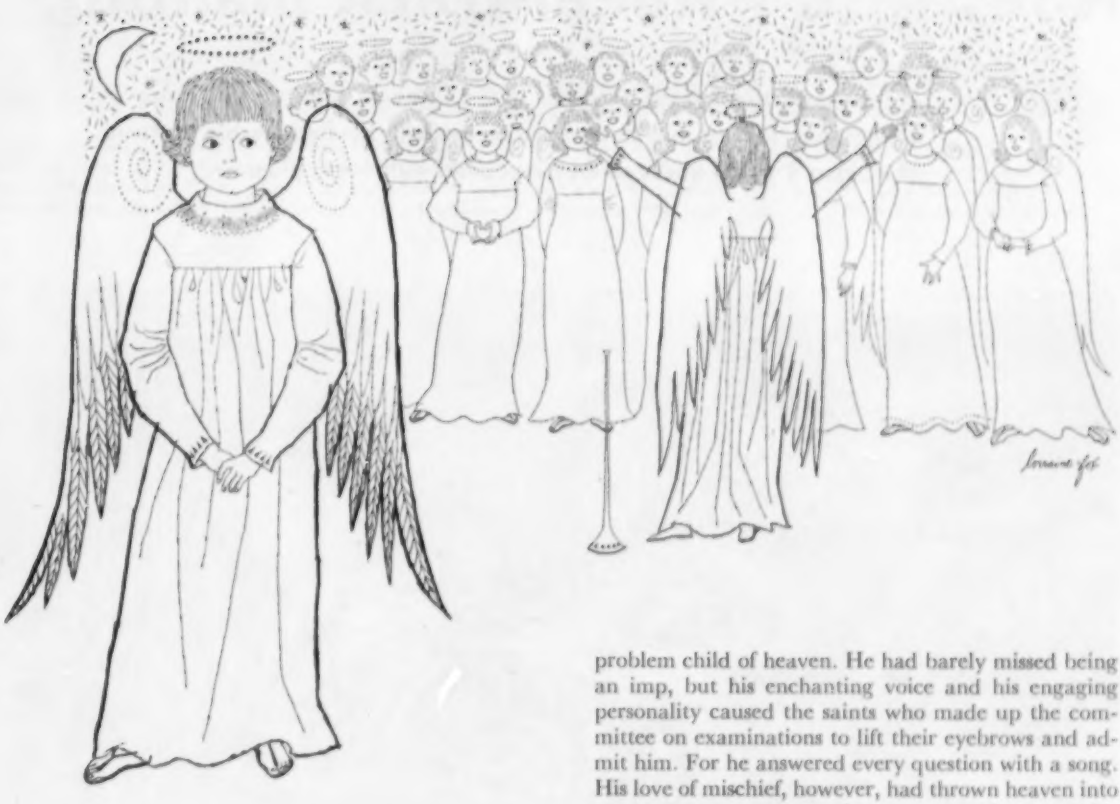
They're out to save you hours and dollars on any farm hauling job... and they've got big new power plus the modern features that make it a sure thing! They put you way ahead with time- and work-saving advantages you won't find in any other truck today!

There's bold new styling—rugged good looks to match Chevy's remarkable stamina and dependability. There's new fleet-action power in Chevy's outstanding engine line-up of modern short-stroke V8's and economy-leader 6's! And you get a cabful of modern conveniences—concealed Safety Steps, High-Level ventilation, locking dispatch box and new deep hub steering wheel are all standard. Important Pickup model features include a grain-tight tailgate and flat-ledge side panels. Get the full story from your Chevy dealer. . . . Chevrolet Division of General Motors, Detroit 2, Michigan.

Alcan Highway Test Run Proves Chevrolet Truck Ruggedness!

In an AAA-certified endurance run, 6 new Task-Force trucks roared up the 4,520-mile Alcan Highway (normally a 72-hour run) in less than 45 hours! Engines and chassis were severely tested on towering grades and through an obstacle course of mud and pounding gravel—and they came through like the champs they are, proving their greatness on one of the world's most challenging roads!

The angel who refused to sing



***The best-loved Christmas stories are the ones that are enjoyed by children and grownups alike. We think "The Angel Who Refused to Sing" falls into this "best loved" category. We hope you and your children will enjoy reading it—we did.* The Editors.**

By J. Chapman Bradley

"And suddenly there was with the angel a multitude of the heavenly host, praising God and singing . . ."

This is the story of the little angel who refused to sing on the night when Christ was born. It began in heaven where the angels of the heavenly choir were rehearsing for the earth's first Christmas carol service. The heavenly concert had been polished to perfection, and was about ready to be released into time so that mortal ears could hear its beauteous haunting refrain all through the ages of man. All was in a state of preparation in heaven; earth was about to receive her Saviour-king. All was ready—save one thing. An unexpected difficulty had developed.

There was in the heavenly chorus a tiny angel with the sweetest voice ever heard through the spheres. But the tiniest angel in the heavenly choir was the problem child of heaven. He had barely missed being an imp, but his enchanting voice and his engaging personality caused the saints who made up the committee on examinations to lift their eyebrows and admit him. For he answered every question with a song. His love of mischief, however, had thrown heaven into an uproar upon more than one occasion, and his frankness and independence of thought had been a source of frequent embarrassment to the saints. He was a cosmopolitan angel as may be inferred from his name: Muforaj, O'Brien, Antonio, Chiang, McTavish, Stackpole, Goldberg, Smith.

Now being a cosmopolitan angel, Muforaj Smith had a mind of his own. When the rest of the heavenly family agreed to accept a certain decision or when personally asked to do something, the tiniest angel in heaven inevitably asked "why?"

The last rehearsal was about over when Muforaj suddenly announced, "I'm sorry, Master Gabriel, but I cannot do it."

"Cannot do what? Sing the Amen? Nonsense."

"No, Master Gabriel, I simply cannot sing at all in the concert tomorrow night. I refuse to sing!"

Gabriel put down his trumpet and stared in stupefaction. Finally Gabriel spoke, as though he were not sure he had heard correctly.

"You . . . refuse . . . to sing? But why?"

"I have been thinking about this concert, and I have conscientious objections to participating in it!"

"Conscientious objections! Well, of all your peculiar notions this is the strangest yet. Explain yourself, sir."

"Master Gabriel, I am objecting to the sentiment of the song we are supposed to sing tomorrow night. 'Peace on earth, good will toward [*Turn to page 64*

LEAST-COST CORN PRODUCTION

Now: 4-row wheel-track planting

Wheel-track planting is on its way in the Cornbelt. Realizing its many advantages, farmers in 3 states have successfully hurdled the big obstacle of making 4 wheel tracks so they can plant with 4-row planters

By T. L. Wainscott

Wheel-track planting started as a 2-row practice. Basically, it consists of planting corn on freshly plowed ground without conventional seedbed preparations; discing and harrowing are eliminated. The planter is hitched behind the tractor so that the corn is planted right in the middle of the wheel tracks.

The rough, loose soil between the rows reduces weed-seed germination, which in turn cuts out the first, sometimes the *second*, cultivation. Fewer trips over the field preparing a seedbed reduce soil compaction. These soils absorb water readily and have better aeration.

Developing 4-row planting makes possible even greater cuts in over-all production costs. These out-of-pocket expenses are slashed: gas, wear and tear on equipment, and man hours—valuable during planting season.

Most of the gamble with the weather is eliminated in 4-row wheel-track planting. The plow starts ½ day ahead of the planter in most soils. If a big rain hits, you're always caught up. Compare this with the second discing necessary after rains ruin seedbeds prepared by conventional methods. Less topsoil is washed off wheel-track planted fields, more moisture soaks in.

The planter above is starting ½ day behind the plow. With it, two men plowed and planted 320 acres of corn in 10 working days and applied starter fertilizer, soil insecticide, and pre-emergence weed killer to boot!

IN IOWA Extra wheels spaced with 1/8"-sheet-steel cylinder made the tracks. Spacer was not welded to rims. Wheels attached with four 5/8" bolts. Row spacing was 40", 44", 40". Elmer Carlson, Audubon, Iowa, made this attachment, planted an FFA plot (above). Liquid fertilizer in barrel applied as starter. Stand was equal to conventional planted plot; rainfall runoff was less. One cultivation was bypassed. Carlson also planted soybeans with 4-row wheel-track planter (above). Next year he plans to replace cast-iron hubs with steel

IN WISCONSIN William Merriam and son, Don, of Janesville, impressed with their results with 2-row wheel track in '55, developed this amazing 4-row planter shown at left. The rear tractor wheels were spaced at 40"; the front wheels at 120". New 7.50x17 tires were put on to make a wider track. Barrels on either side of tractor hold starter fertilizer, weed killers applied with PTO pumps.

Aldrin and liquid fertilizer go down planter boot, giving a band at side of seed. Randox and 2,4-D mixture is band-sprayed behind packer wheels, stop both the broad-leaved weeds and grasses.

At right is Merriam's stand just before one and only cultivation. Note very uniform stand. Yield: 115 bushels an acre.

Photographs: Suter, Hedrich-Blessing, Korling, Pease, Hamilton

Here's the extension frame which places front wheels 10 feet apart. Triangular plates and steering-arm extension turn sharp enough to bring the conventional 4-row planter back on the marker in the width of 8 rows

Don takes a smoke while his barrels fill from supply tanks. He puts concentrated emulsion insecticide into one barrel, and adds the liquid fertilizer; applies 1 quart aldrin, 100 pounds 6-18-0 per acre. Concentrated weed killers and water go into the second barrel

IN ILLINOIS Orson P. Hill, of Creston, equipped his tractor with a pair of offset wheels for $250. He obtained wheels from North Dakota, where they are made especially for discing to give added traction and reduce soil compaction. Plow packer trails plow for minimum tillage

Wheel assemblies are clamped through the wheel-weight bolt holes with four 3/4" bolts 16 inches long. The spacer is a 20" truck rim. Hill admits there is some stress on the tractor. With his brother on the plow, he planted 400 acres of corn last spring

"We'll never go back to dairying"

Earl (left) and Bob, the Hamre brothers of De Forest, Wisconsin, were not afraid to make a major change in their farming operation. But the change was based on facts—not hunches. They used the judgment of experiment station workers, successful farmers, and others with years of experience in broiler/pig production

By Ed Mercer and Mike Bay

"We'd never go back to dairying on the basis of our farm operations and returns as they are today!" agree Earl and Robert Hamre, Columbia County, Wisconsin, farmers.

That sounds like a strong statement for Wisconsin farmers to make, but that's the way Bob and Earl feel after selling their dairy herd and turning to broiler and feeder pig production on their 160-acre farm.

"There's a good reason why we wouldn't go back to dairying, too," say these successful brothers. "We made more net profit during 1955 on the broilers we raised in our barn than we would have grossed on the 32-cow dairy herd the barn is designed to handle!"

> Step back and take a critical look at your farming operation. You may find alternatives which prove more profitable and interesting. The Hamre Brothers took a look—and then made the most important decision of their career. — *The Editors*

How did this pair of ambitious young men—Bob, who is 30; and Earl, 33, married and father of 4 children—arrive at their decision to go out of dairying in the heart of the nation's dairyland?

The answer is simple. They operated their 160-acre farm where they were born, on shares with their father for one year, then bought the farm from him. A year later, in 1947, national economists predicted a "softening" of the economy. In looking at farm prices, it seemed to the Hamre brothers that the peak was moving by so they felt it would be a good time to pay off their mortgage.

Dairy cattle prices were good and it looked like the time to sell out for the best prices. So they sold their 50 head of dairy cattle, which included the 32 head of milking cows. "We thought then," says Earl, "that we might stay out of dairying a few years, then go back when the cattle prices were down."

After selling the herd, they rented their farm. However, after a year, they returned to the farm. They had a small flock of chickens and when the cockerels were ready to sell, the market wasn't very good. So they dressed and froze them, holding them until prices went up.

When poultry prices were better, they went out to market the dressed birds in the capital city of Madison, a few

Photograph: George P. Miller

miles away. There they found the eating places preferred half-fryers.

"That created interest in our minds," says Bob, "and we began looking into broiler production. There was almost no broiler production in the state, so we got what information we could from the University of Wisconsin, then wrote out of state for further details.

"Further research on markets indicated a strong demand for broilers; in fact, more demand than we expected," says Bob.

They began working with a local hatchery and the University poultry department, going into broiler production on a small scale. No processor was available so the Hamres killed, dressed, and packaged their birds on the farm, then peddled them to restaurants and hotels in and around Madison under the "Willow Wand Farms" brand.

They picked up account after account as the quality of their birds became known.

"We were proving that we could supply the *kind* of birds the market wanted *when* they wanted them," says Earl.

Another reason for going into broiler production was that it looked like an enterprise they could enter without a large investment, unlike going back into cattle.

They started growing broilers in the calf barn and a small poultry shed, increasing numbers as demand grew, until this year, the Hamre farm will market 56,000 broilers.

"As our broiler production increased and while we were dressing our own birds, we wanted some way to utilize the viscera," explains Bob, "so we thought of adding hogs as another stock enterprise, as a means of feeding the broiler wastes.

"When we looked for feeder pigs," Bob adds, "we could not find the kind we wanted—uniform, healthy, vigorous pigs that we knew would feed efficiently and profitably."

That fact started them into the second major stock enterprise which now makes them agree: "We'd never go back to dairying!"

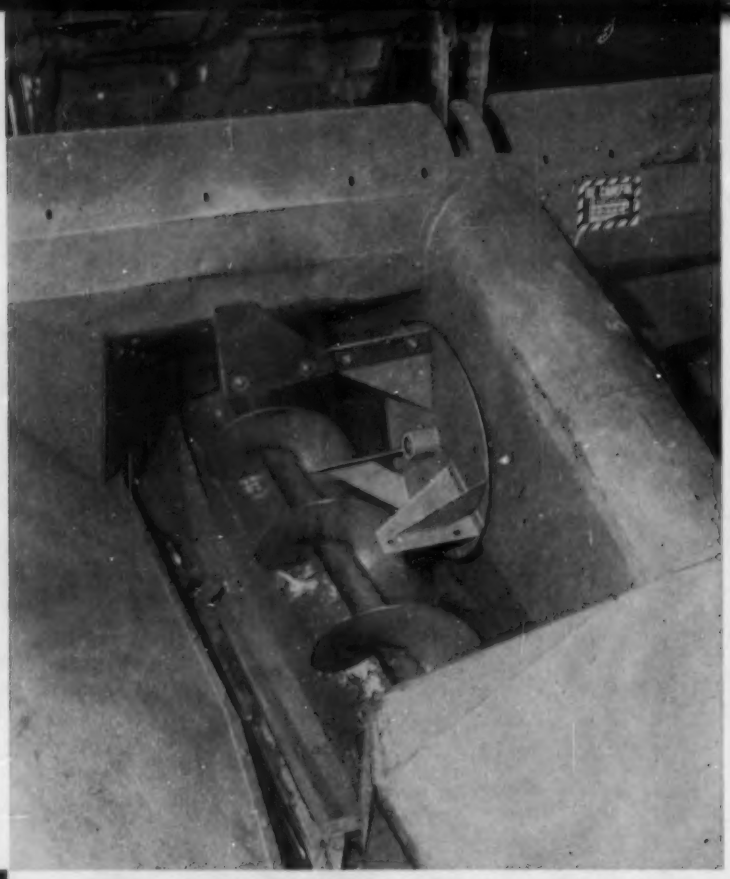
They decided to raise their own "feeder" pigs, starting with the best stock they could get, with the best feed conversion records they could find.

"Feeding efficiency, the ability to put on a pound of meat by a bird or animal with the least amount of feed, plus efficiency in management are the two main points on which most of our farm profits are made," they point out.

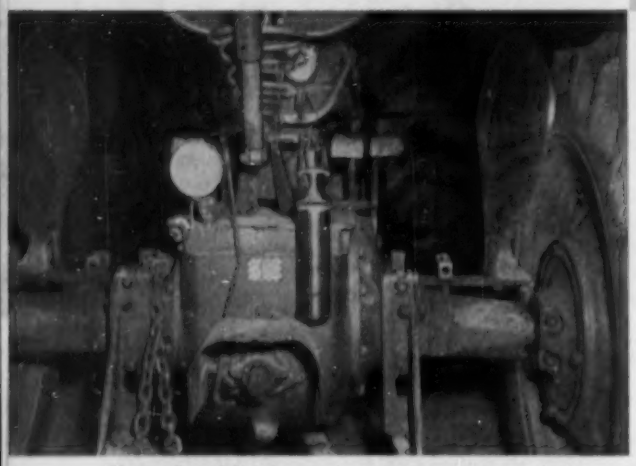
After much hunting, they finally located breeding stock from an Indiana farm that met part of their requirements for having feed efficiency records. This farm was crossbreeding inbred lines which produced [*Turn to page 70*

HANDY AND SAFE

Farmer-built and just the thing for you to make in your workshop while waiting for winter to pass. You'll need these during the planting and growing season—when you haven't time to build them

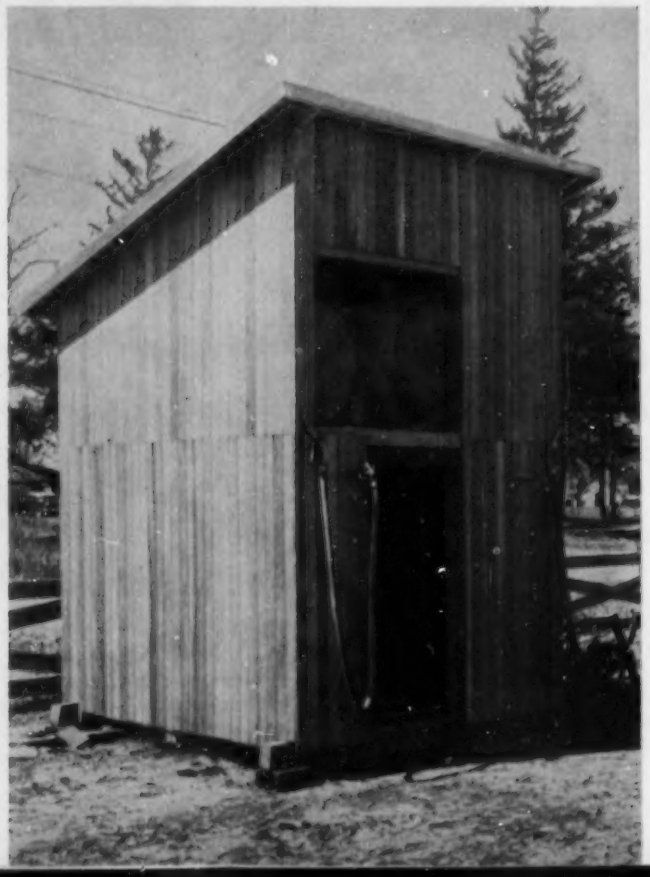


No stops for cleaning out stalks—which plug compicker and cause so many accidents—with this device. Ray Creelman, Oakville, Iowa, mounted heavy belting flaps on both right and left rotors of this self-propelled outfit. Flaps were made of strap irons and bolts

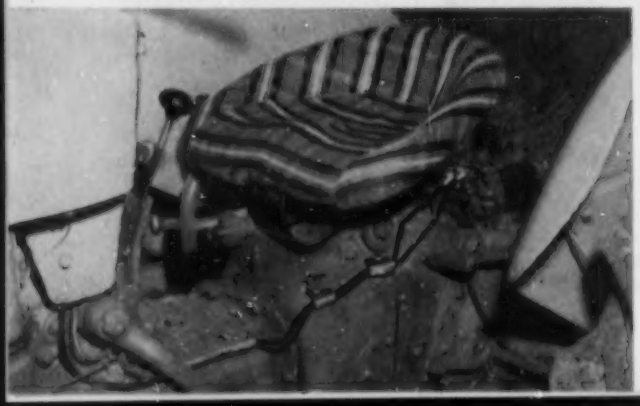


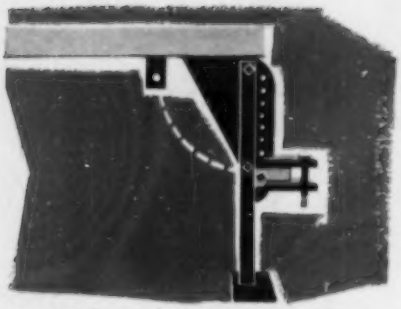
Fire extinguisher mounted on tractor is in easy reach of operator. Monell Sharples, Swanton, Ohio, had one tractor catch on fire but he finally managed to extinguish it by throwing loose soil on the blaze. Right then and there, he vowed never to be caught unprepared again. Now his fire extinguisher is handy and ready

Evaporation loss from storage tanks may be as high as 10 percent during hot summer months. Top floor of this building shelters two tanks—one for gasoline, the other for fuel oil—from hot rays of sun. Bottom floor houses grease and oil. Ben Juchems, Hardin County, Iowa, located fuel house well away from the other buildings



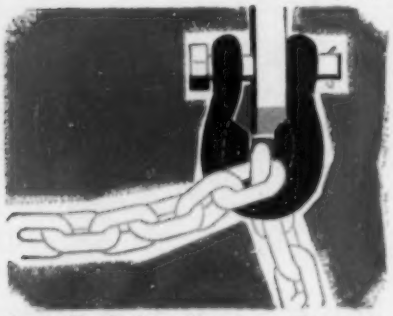
This warning horn gives persons working behind tractor notice that it is about to be put in reverse. The horn operates only when the tractor gear is pushed into reverse. Guy Coon, Hartford, Iowa, left enough clearance between the horn button and gear shift to prevent horn from sounding continuously while backing



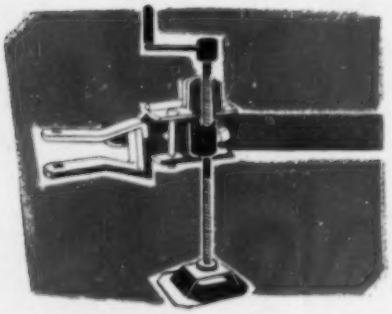


Handy hitch and jack can be adapted to tractors and cars with drawbars or trailer hitches of various heights. Built by Stan Mathews, Mount Union, Iowa, the hitch-jack will stand alone when the "post" is dropped. As shown above, it is held in position with a loose bolt. For a base, he welded a plate to bottom of post

Drawings: Stirts



A nonslip clevis for chains was made by John Hartl, Cedar Rapids, Iowa, by welding short iron bars inside the clevis, leaving just enough space for a chain link. This keeps chain from slipping

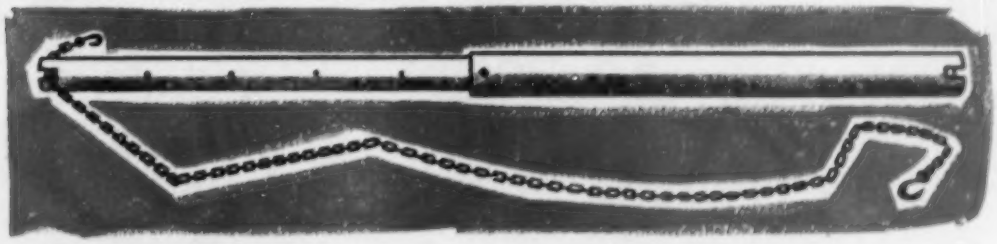


Hand-cranked jack welded to tongue of this mower makes hitching easy. If tongue is not at proper height, a crank of the handle places it in position. When it is hitched to tractor, Clifford Cruzen, Wright, Iowa, spins the crank a few turns and raises the base up out of the way

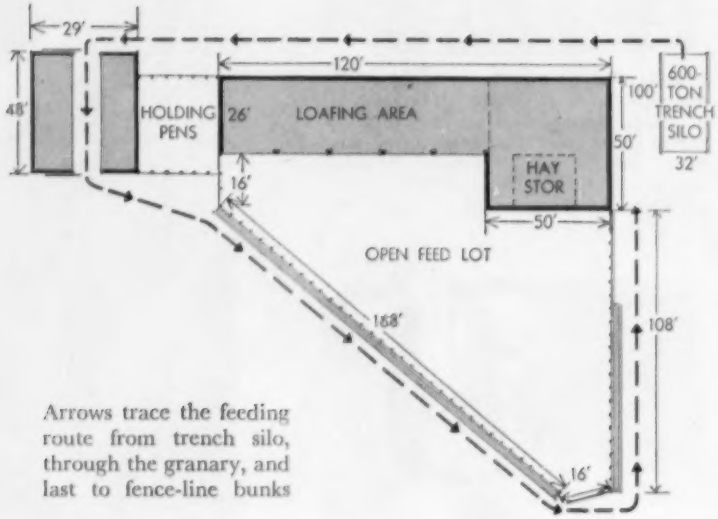
Photographs: Wentsch, Kutsch, Messerly, McVicar, Pease

Safety hitch pin with long-handled lift has two distinct advantages. Builder Clifford Cruzen, Wright, Iowa, can lift the wagon or implement tongue and couple it up without getting off the tractor seat. Finger lift opens bracket encircling the drawbar

When moving large feeders, sunshades, hoghouses, and brooder houses, Keith Elwick, Vinton, Iowa, uses this telescoping pipe to keep log chain from damaging the runners. He adjusts the pipe to width of skids on the building and fastens the two pipes together by placing a bolt through a hole in larger pipe which matches hole in the smaller one



The Hicks feeding system provides a continuous route with little waste of time. Silo holds roughage for winter feeding—green chop is used during summer months



Arrows trace the feeding route from trench silo, through the granary, and last to fence-line bunks

Self-unloading wagon is first loaded with silage from 600-ton trench silo during winter months. Manure scoop is used to remove silage from trench and dump it into wagon (see picture above). During the summer months the feeding operation starts in the field with green chop.

From here the wagon is taken to the crib where the concentrate ration is placed on top. Chutes from overhead bins deliver feed directly to the self-feeding wagon below.

The wagon is taken to the bunks for unloading and then the empty wagon is driven around the barn and back to the silo ready for reloading. No opening of doors or gates to slow down the feeding operation.

The silage wagon runs the year round. Daily use helps offset cost of this equipment. Unit handles 200 steers.

He's shooting for . . .

1,000 lbs. of beef per acre

Shifting from extensive farming of 510 acres to a concentrated 177 acres gave Jerald Hicks nearly the same income with less work. Beef and 3 crops made this vertical expansion possible

By Jack Everly and Vernon Schneider

Buying more land isn't the only way to expand. You can expand vertically, too.

Take for instance, Jerald Hicks of Lee County, Illinois. Three years ago Hicks was farming 510 acres. His landlord decided to sell. Hicks suddenly found that he had to confine his farming to the 177 acres he already owned. This presented a problem of getting enough volume to provide a satisfactory family farm income.

He decided to make improvements on the 177 acres and to expand vertically. He set a goal—1,000 pounds of beef per acre on his 177-acre farm. He hasn't made it yet—700 pounds of beef and 100 pounds of pork per acre this year—but expects to within the next year or two. Already Hicks is producing almost as much beef on his 177 acres as he formerly did on 510 acres.

Shifting gears from an extensive farming operation of 510 acres to a concentrated, profitable 177-acre beef cattle enterprise is tough under present conditions—but Jerald Hicks did it. With some help from Wilman Davis of the Farm Bureau Farm Management Service, he planned a feedlot which made use of his old feedlot and buildings. Added were a pole-type resting area, a triangular feeding floor, and a fence-line bunk.

And here's the best feature of all in Hicks' new look at farming. His net income is near what it was on the 510 acres and he's doing it with a lot *less* work. The pictures and drawing on these two pages show the Hicks beef-feeding system in action—both winter and summer.

Bunks built into outside fence save labor, free lot space for cattle, and increase life of the average bunk. With bunks outside, it's much easier to clean out the manure. Plus, you have the daily advantage of faster and easier feeding of the cattle.

Nobody belongs in the feedlot except the cattle, believes Hicks. Using this system, you can put this into practice.

Putting the bunks on the outside of the feeding floor increases the utilization of the floor area. Also, the triangular feedlot requires less floor area per foot of bunk feeding space, cutting construction costs.

Hicks continues to use the existing barn for hay feeding (see drawing at left). For a resting area, he has added a long pole-type barn to the old barn.

To get maximum use of limited acreage, Hicks has changed to a 5-year, 3-crop rotation of corn, corn, oats, and 2 years of grass-legume. During 1955, his 56 acres of alfalfa, clover, and timothy fed 150 steers from May 11 to August 20 with all they could eat, plus 1,500 bales of hay and 200 tons of silage. Forage being chopped here will be green-fed.

Photographs: Suter, Hedrich-Blessing

Vertical farming means both maximum crop production and maximum crop utilization through beef cattle.

The lot is shaped so there is enough bunk space for all the cattle to feed at once. A gate at the point of the triangle provides a good entrance to the feedlot.

Use Mrs. Santa as your theme for decorations, starting with the family Christmas card as shown. To invite friends to a holiday tea, make miniature Mrs. Santas, tuck invitation in muff. Guests can use them for tree decorations next year. A large Mrs. Santa graces the center of your punch table. As finishing touch, make felt holders for hot punch glasses.

Photographs: Hopkins. Decorations: Mary Sternberg

The Three Wise Men on Christmas card are used for this Nativity theme. For invitations make Wise Man from gold wrapping paper, decorated with colored sparkle dust to give effect of jeweled robe. Invitation is written on back, as shown.

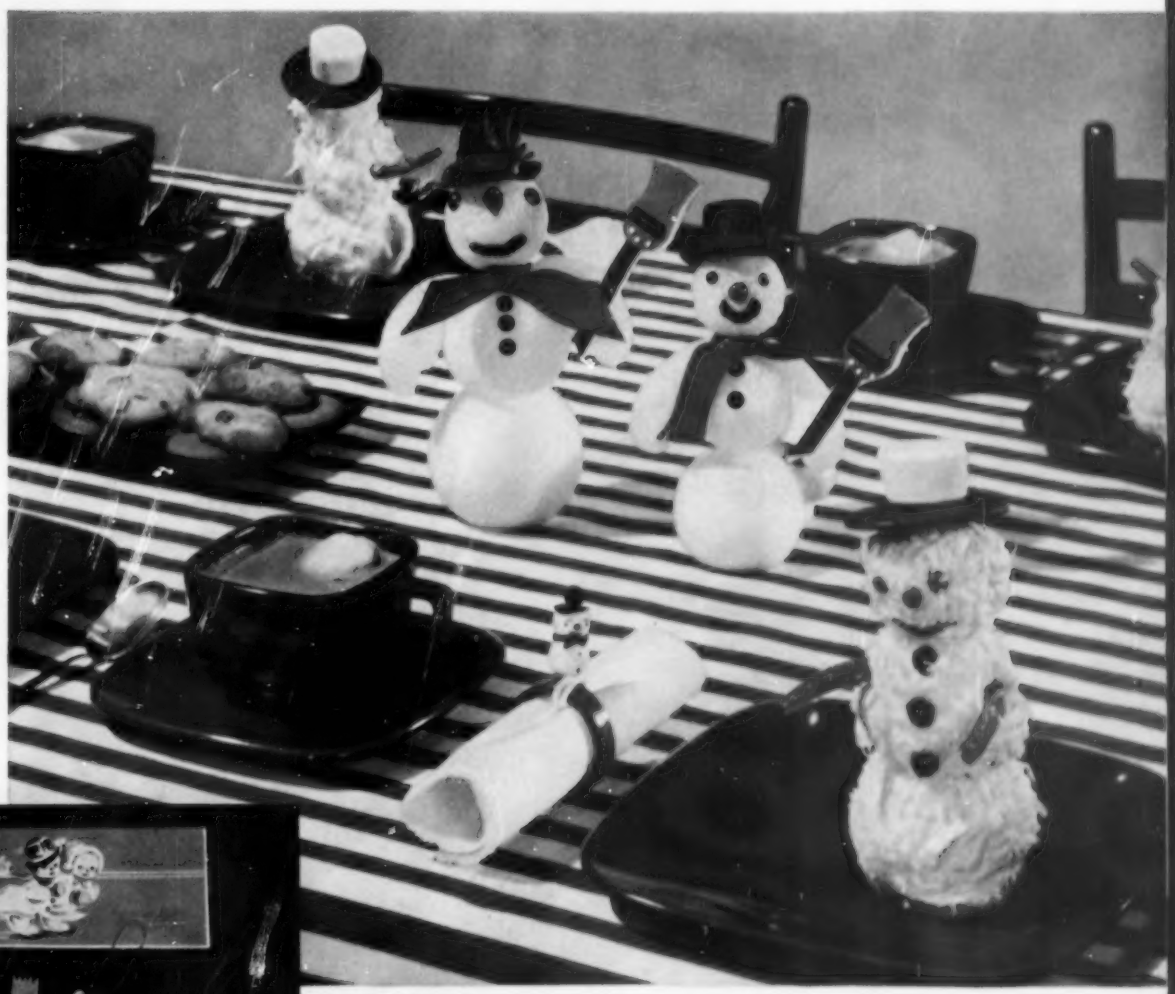
Use a creche as your centerpiece on the refreshment table. Add pieces from year to year as family tradition. Favors are miniature boxes of matches wrapped as gifts with name of guests in gold glitter.

You're invited to a party!

By Betty Fisk

CHRISTMAS is a time for family and friends to get together. Why not have a party—an informal buffet supper or an afternoon holiday tea to bring them together round the Christmas tree? Set a theme for your decorations and carry it through—from greeting cards to centerpieces. Here are fresh, new, festive ideas to help you plan a holiday party for grownups or children

How to make decorations, page 67



For the youngsters in the family and neighborhood, give a winter party! They can build snowmen, skate, and go sledding. When play is over greet them with snowman refreshments. Make invitations from styrofoam in shape of snowman. Serve ice-cream snowmen and hot chocolate from a gaily decorated table with red and white cloth and green dishes.

Jingle-bell treats

By Mary K. Farnen

Cherished memories of Christmas are the delightful, nose-tickling aromas that greet the churchgoers arriving home from Christmas services. Crisp country air stimulates the appetite and when your gaze stops on one of these eyecatching desserts—well, you just get so hungry you can hardly stand it.

There's smooth, rich Snowflake Pie loaded with chunks of candied fruit, or angel cake frosted like a Christmas box. Children will enjoy a drum cake and for extra-special treat make this steamed pudding in a pretty mold and serve with your favorite hard sauce. Here are easy ways to trim your Christmas table.

Coconut Christmas Pie

(Makes one 9-inch pie)

- ½ cup sugar
- ¼ cup flour
- ¼ teaspoon salt
- 1 envelope (1 tablespoon) unflavored gelatin
- 1½ cups milk
- ¾ teaspoon vanilla
- ¼ teaspoon almond extract
- ½ cup heavy cream, whipped
- 3 egg whites
- ¼ teaspoon cream of tartar
- ½ cup sugar
- ¾ cup flaked coconut
- ½ cup chopped mixed candied fruits
- ¼ cup chopped almonds, toasted
- Baked 9-inch pastry shell

Combine ½ cup sugar, flour, salt, and gelatin in a saucepan. Gradually stir in milk and cook over low heat, stirring constantly until mixture becomes very thick. Cool; beat till smooth; fold in flavorings and whipped cream. Beat egg whites with cream of tartar till soft peaks are formed; gradually add ½ cup sugar, beating till stiff peaks form; fold into gelatin mixture; add coconut, fruits, and almonds. Pour into pie shell and chill till firm, about 2 hours. Trim with gumdrop snowflake, if desired.

Christmas Box Angel Loaf Cake

(Makes 12 servings)

- 1 loaf angel cake
- 1 recipe Cranberry Cake Filling
- 1 recipe Easy Snow Cap Frosting
- Cranberries for trim

Split cooled loaf angel cake lengthwise; spread with *Cranberry Cake Filling* and frost. Trim with strings of cranberries, if desired.

Cranberry Cake Filling

- 1 cup sugar
- ½ cup water
- 1 tablespoon quick-cooking tapioca
- 2 cups fresh cranberries
- 2 teaspoons lemon juice
- ½ cup chopped nuts

Combine sugar, water, and tapioca; bring to a boil; add cranberries and cook till thick and tapioca is clear. Remove from heat; add lemon juice and cool. Stir in nuts. Use as filling for cake.

Easy Snow Cap Frosting

(Will frost two 9-inch layers)

- 1 egg white
- ½ cup light corn syrup
- Dash salt
- ½ teaspoon vanilla
- Few drops green food coloring

Combine all ingredients in a bowl and beat till frosting is of a fluffy, spreading consistency. Tint a pale green, if desired. Trim with strings of cranberries.

White Cake (Makes two 9-inch layers)

- 3 cups sifted cake flour
- 2 cups sugar
- 4½ teaspoons baking powder
- 1 teaspoon salt
- ⅔ cup shortening
- 1½ cups milk
- 2 teaspoons vanilla
- ¾ cup (5) egg whites
- Snow Cap Frosting

Sift flour, sugar, baking powder, and salt into a bowl. Add shortening and 1 cup milk. Beat at medium speed with mixer or vigorously with a spoon for 2 minutes, scraping bowl frequently. Add remaining ⅓ cup milk, vanilla, and egg whites. Beat 2 minutes longer. Pour into two 9-inch paper-lined round pans. Bake in moderate oven (350°) 30 to 35 minutes.

Jeweled Hard Sauce Roll

- 3 tablespoons butter
- 1¼ cups sifted confectioners' sugar
- 1½ teaspoons cream
- 1½ teaspoons lemon juice
- ¼ cup chopped mixed candied fruit

Cream butter and sugar till light. Stir in cream and then lemon juice, and fruits. Pack sauce into clean, dry 6-ounce frozen-fruit-juice can. Chill till firm. Remove bottom from can and press hard sauce through, cutting in ¼-inch slices. If desired roll the hard sauce in chopped nuts before slicing.

More recipes on page 84

For snowflake trim, roll plump gumdrop out flat on waxed paper. Sugar keeps it from sticking. Cut out star for center and make the design from many narrow strips

Frost loaf cake with delicate-green fluffy frosting. String cranberries using large needle on wrapping string; trim cake top

Photographs: Mike Nelson

Cut peppermint sticks; encircle cake top and bottom. Angle sticks on sides. Drumsticks are gumdrops on peppermint sticks

Arrange almond rows and daisy design in greased pudding pan before adding batter. Bake; add candied cherry centers

Color photograph: Allen Snook, Inc.

Materials Handling
Make It a System

He SHAKES his feed from crib to barn

By S. S. DeForest

"My shaker system of automatic feed handling has worked out well. I save time and labor besides having the convenience of ground feed always available in front of each cow at milking time. The feed is always fresh, too."

This is the way Robert Hedrick, Polo, Illinois, sums up his year-old feed-grinding and conveying system. He's had very little trouble with it so far, due in part he says, "to the good help I received from agricultural engineers of the Public Service Company, Chicago, and one of the large manufacturers of barn and farmstead equipment." Here's how his system works.

A 3"-wide metal-mesh mat powered by a 1-hp motor runs under 3 overhead bins and drags ration ingredients to the hammer mill. Calibrated gates control the amount of each ingredient the mat can drag out. By using calibration charts, Hedrick can quickly adjust the gates to suit any ration requirement he may need.

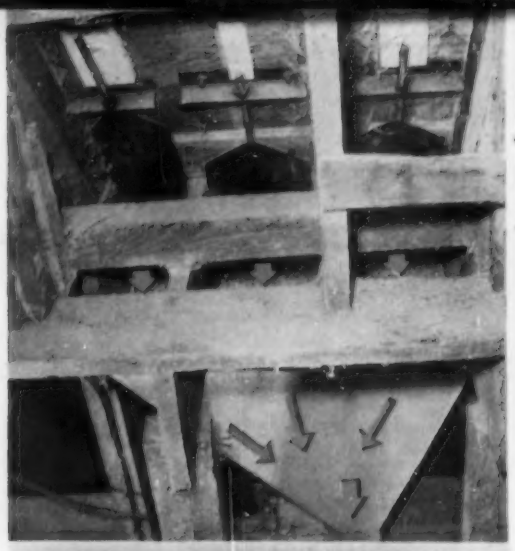
The hammer mill mixes and grinds the ration automatically, then blows the feed to an overhead ground-feed storage bin, large enough to hold a 1½-days' supply.

Hedrick finds a 25-minute grinding period (set by a time clock on the control panel) is all the grinding time he needs for 3 feedings for his 38-cow herd. The control panel, heart of automatic grinding, also prevents the grinder from becoming overloaded.

From the ground-feed storage bin, a novel shaker mechanism shakes feed to the milking parlor. The photographs show how the feed drops from the feeder to the chutes at each stall.

The amount of feed in the last chute controls the operation of the shaker part of the system. As feed is used from this chute, a "flapper," connected to a switch, swings down, turns on the shaker motor to start feed coming to the parlor. The chutes fill in order and when the last one is filled, feed pushes the flapper to the "off" position, stopping the system.

Hedrick says, "Formerly I spent ¾ day a week to grind feed for my cows and every time I milked, loaded up a wheelbarrow and dipped feed to each cow, a scoop at a time. Now every day and a half I press a button to start the grinding operation, set the time switch and, except for turning the feed crank at the milking stalls, machinery does the rest."

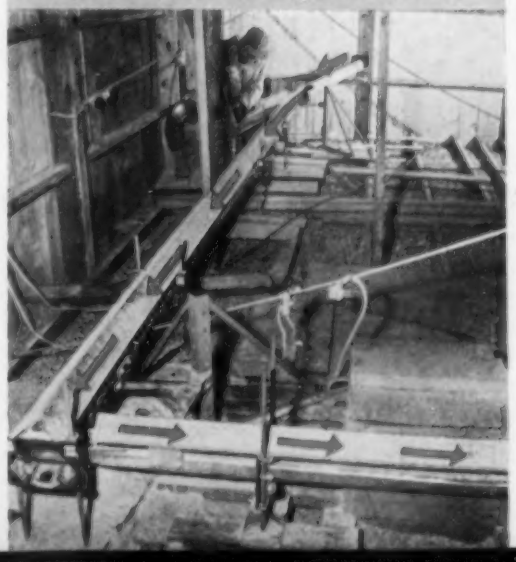


1 Overhead storage bins in crib hold 300-400 bushels of oats, 1 ton protein, 4 loads corn. Metal-mesh mat in bottoms unloads at side. Calibrated gates (in picture) keep mixture consistent

Photographs: Pease

4 Pipe to milking room is 4" blower pipe, suspended from cable by chains so it can shake the feed through. Lip under pipe at far end lets any water drip off before it can run into building

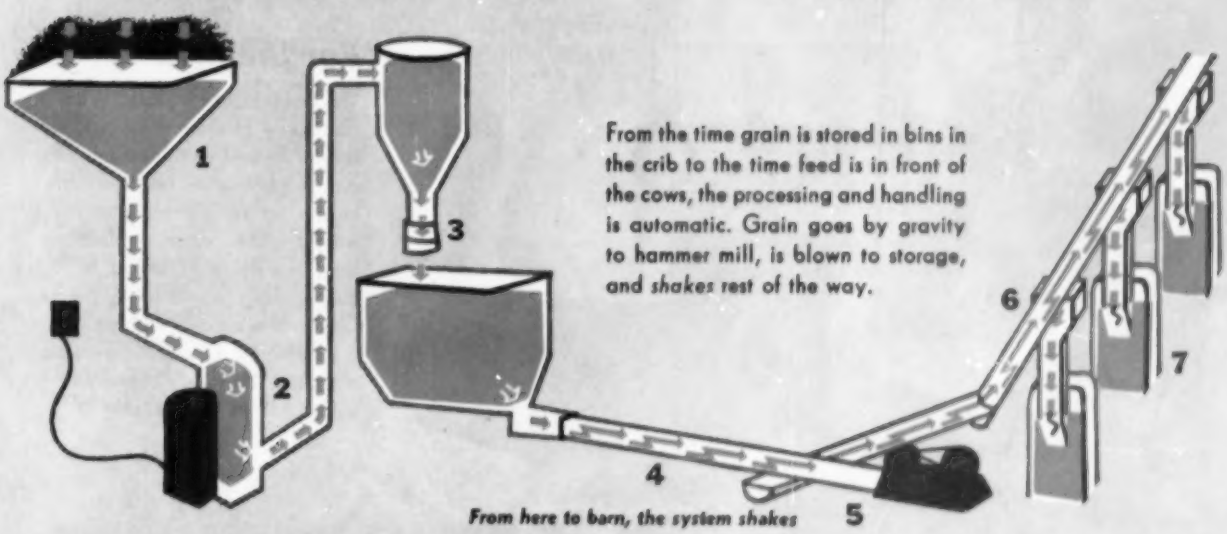
5 Single power unit with ¼-hp electric motor drives the entire shaking mechanism, including the pipe to the crib which, in turn, empties the bin, and the poultry feeder for distributing the feed



2 Grinding is automatically controlled by control panel. Hedrick presses button to start bin unloader and 5-hp mill motor. If mill becomes overloaded, overload relay stops bin unloader. After mill clears itself, bins start unloading again

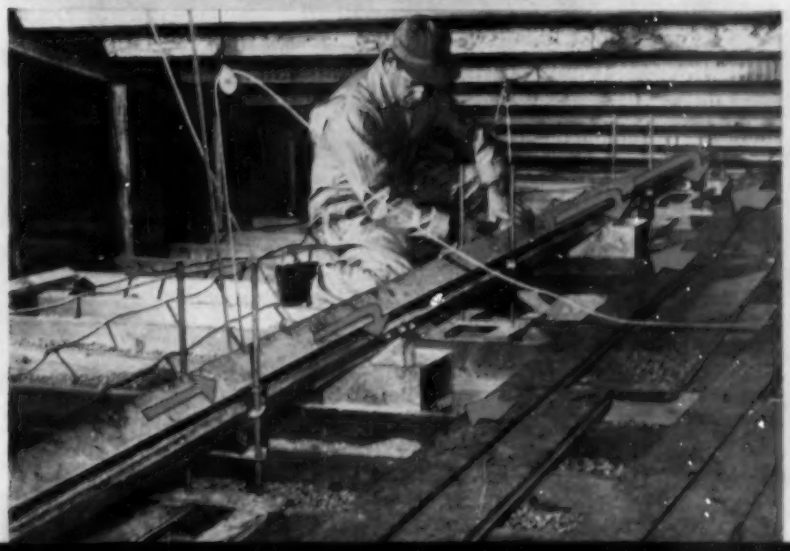
3 Setting the time switch on the control panel for 25 minutes will grind enough feed to fill the 1,200-bushel ground-feed bin overhead. This is enough for 3 feedings for 38 cows. Bin is emptied by shaker mechanism beneath. Feed bin empties completely; feed drops into pipe on way to milking parlor in barn

This part is in the crib ***This part is in the barn***



From the time grain is stored in bins in the crib to the time feed is in front of the cows, the processing and handling is automatic. Grain goes by gravity to hammer mill, is blown to storage, and *shakes* rest of the way.

6 Shaker-type poultry feeder takes feed to positions above chutes to milking stalls. It drops into first chute, fills it, passes over to second and fills it. Same process is used for third chute, and when all are filled, feed builds up at the end of the trough and operates shutoff switch to stop shaking action of the entire system, including the conveyer pipe and the poultry feeder



7 One turn of crank attached to short auger puts 1 pound of feed in box. Hedrick has occasional difficulty with feed bridging. Tapping on chute usually ends the trouble

Gifts

By Nancy Lusk

For the man

The perfect gift for Dad? What about one of these—for outdoor sports? Recent developments in garment insulation are available in hunting outfits—so lightweight, yet so warm. A sleeping bag, new fly reel and rod, or hunting knife would surely please. Or, let him predict weather with a barometer, display his guns on a rack, or be safety conscious with a car fire extinguisher

Photographs: Hopkins

For leisure. Loose corduroy jacket, washable slacks—after-chore favorites—are right for enjoying hobbies. Records, a new high-fidelity record-player, a projector favor home relaxation

For travel. Next year's vacation offers an interesting subject for his Christmas gift. A globe, an accessory for Dad's office, may inspire a vacation to another country and make current events more interesting. Binoculars, movie camera come in handy on every vacation. A slide file box keeps slides sorted

you will like to give

Save time shopping. Make a list more inclusive than names. Browse these pages, window shop, and challenge your imagination for a novel, useful gift for each person on your Christmas list. Below are gift suggestions, grouped as to use, of varying prices

For the woman

Leisure—the savored luxury in Mom's life—is choice subject for a Christmas gift. Pretty but comfortable lounging garment, fancy slippers are items she'd never buy. Choose one easy to fit, colorful. Lounging pants above have elasticized waist, zip down the front; slippers are matching blue. Accessories for the living room—toss pillows, pictures, bookshelves—rate high in acceptance. Or, books and magazine subscriptions

For travel. When Mom and Dad take a vacation, she may want one of these: New luggage; a camera of her own; portable radio with the new transistor tubes; pocketbook large enough for 1 day's accumulation of souvenirs; a travel steam iron, colored glasses for busy eyes, and cosmetics she considers a luxury

For your home. Housewares and small appliances are new with color and design. Sterling of Contemporary design blends well with any tableware. TV, 7-inch portable, can be transported to wherever Mom wants to work

An ALL-BREED plan for getting CERTIFIED meat hogs

By Vernon Schneider

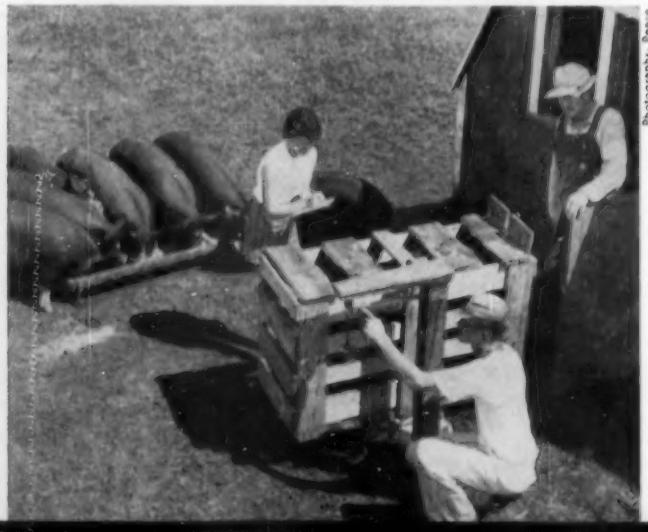
On-the-farm information which breeder must get to certify a litter

Certified litter must officially qualify for Production Registry under standards set by various breed associations. This and other information is recorded on official entry blank. Shown is Myron Dammann, Elkton, Minnesota, who certified 8 litters

Two and only 2 pigs are eligible for testing. They must be from PR qualified litter, properly earmarked (see individual earmarking above), sired by recorded boar, out of recorded sow. Pigs can be barrows, gilts, or combination, but not boar or stag

Litter weights at 56 days must be 275 pounds for gilt and 320 pounds for sow. Several breeds weigh at 21 and 35 days. To make weights official, G. S. Hanson, cashier of local bank in Elkton, assists Dammann

Final weight for 2 test pigs must be 200 pounds at 180 days or its equivalent. Pigs must then be submitted to cooperating slaughter station at weights from 180 to 230 pounds. If either animal in a litter fails to meet these weight or carcass standards, the litter is automatically disqualified



Photographs: Pease

A hog that carries the "Certified Meat Hog" label is more than just another hog. He is the result of one of the most progressive improvement programs in the swine industry. To breeders and commercial hogmen alike, the "certified" label has become the best measurement of quality to date.

A revised lean-meat certification program was adopted last spring by the National Association of Swine Records. It became effective on litters farrowed after May 31, 1956. *Breeding stock certified under this plan are now available.*

The objective of this certification program is to find and identify those lines or strains within a breed which are producing acceptable meat hogs at desired market weights.

The certification program is a three-point program based on Production Registry (PR), rate of gain, and last—but not least—carcass quality. Key to this improvement program is the *Certified Litter* (CL). A boar that has sired five litters that qualify as certified litter is known as a *Certified Meat Sire* (CMS). These litters must be out of five different sows, not more than two of which are full sisters or dam and daughter combination. The repeat mating of a boar and sow that has produced a certified litter is known as a *Certified Mating* (CM).

Carcass information is responsibility of cooperating slaughter station

Loin-eye tracing is made between the 10th and 11th rib. Minimum loin-eye area is shown in the chart below.

To get tracing, acetate paper is placed against the cross-section of loin (shown above). Tracing is labeled to correspond to tattoo number on that hog.

Carcass length is measured from front of first rib where it joins vertebra to the front of aitch bone. A small steel tape, graduated in 1/10 inch, is ideal.

It is the duty of cooperating slaughter station, not the breeder, to forward carcass information to association.

Fatback thickness is measured at 3 points: Opposite first rib, opposite last rib, and opposite last lumbar vertebra (see marks on carcass above). Figures in table are average of 3 measurements.

Average charge by most slaughter stations to obtain data is $2.50 per hog.

Certified meat-type carcass standards

WEIGHT (pounds)	LOIN AREA (square inches)	LENGTH (inches)	FATBACK (inches)
180 TO 199	3.5	28.5 TO 32	1 TO 1.6
200 TO 214	3.75	29 TO 32.5	1.1 TO 1.65
215 TO 230	4	29.5 TO 33	1.2 TO 1.7

They built FUN

into their community

Discontented with living in a community void of recreational facilities, these church members did something about it. Perhaps you can take advantage of the Christmas season to start such a project

This area of center features softball diamonds for the kids and grownups and a basketball court. These pictures capture part of activity at Labor Day program

Photographs: Pease

Harry Christopherson paused at his horseshoe game, looked at all the activity about him, and remarked, "Young Americans have a lot of steam to let off and there is no better place for that to happen than right here."

He referred to the recreation center located on the Midway Lutheran Parish grounds in Yankton County, South Dakota. And he represented the thinking of the parish members who decided to do something about the lack of recreational facilities. The parsonage is 15 to 20 miles from the closest towns—all too small to have organized recreation.

The program is sponsored and paid for by the Midway Parish Luther League. Work on the center started in December 1948, at the suggestion of Pastor E. A. Bersagel [*Turn to page 62*

Three volleyball courts make the center a popular place to stage tournaments. Lights mounted on 8 utility poles illuminate the field for their evening meetings

Homemade swings, teeter-totters, and sandboxes for smaller children

Since buying this sound-movie projector, members enjoy educational, religious films the year round

Heidi, the 2½-year-old daughter of Rev. and Mrs. Stanley Kvinge, found this slide "Just lots of fun"

Nourishing Pair—Soup and Milk

Take the nourishment of a soup like Vegetable Beef. Make it with milk — and you serve a delicious, satisfying dish that has just about everything an active youngster needs for sound nutrition.

For Vegetable Beef Soup supplies body-building proteins, health-providing vitamins and minerals from fine lean beef and carefully selected vegetables. Milk's extra bonus of vitamins, minerals and proteins adds extra nourishment at its best. And what a *delicious* way to get more of the vegetables and milk children need!

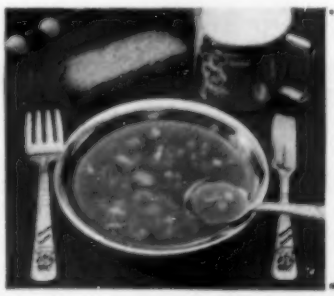
You get a bonus, too, in the satisfaction of seeing the soup disappear — quickly. There are so many Campbell's Soups to choose from; you can serve a different soup and milk combination often.

Campbell's

Once a day... every day... SOUP!

SPECIAL OFFER: Baby's own Silver Bowl, Cup, Knife, Spoon and Fork Set embossed with famous Campbell Kids. Make ideal gifts. Cup has 24K gold lining. Wm. A. Rogers quality silverplate by Oneida Ltd.

	Retail Value	Special Price
Bowl	$3.75	$1.50
Cup	$2.50	$1.00
Knife	$1.00	$ .30
Spoon and Fork Set	$1.75	$ .50



MAIL TO CAMPBELL SOUP COMPANY, BOX PP766, CAMDEN 1, N. J.

Please send me postpaid (cash—no stamps) _____ silver bowls (each $1.50 plus 2 Campbell's Soup labels); _____ silver cups (each $1.00 plus 2 Campbell's Soup labels); _____ silver knives (each 30¢ plus 1 Campbell's Soup label); _____ silver spoon and fork sets (each 50¢ plus 2 Campbell's Soup labels). Offer expires March 31, 1957.

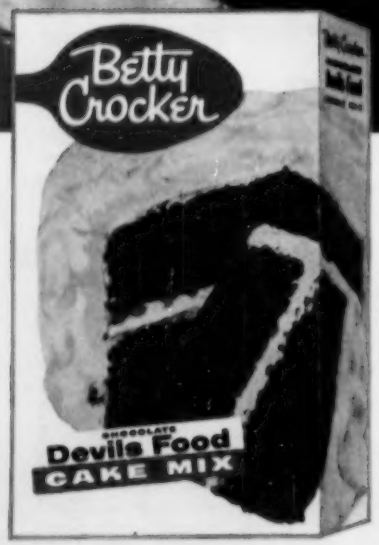
Bowl and cup each 50¢ additional in Canada (please print your name and address).

Name _____

Address _____

City _____ Zone _____ State _____

In Canada: Mail to Campbell Soup Company Ltd., Box 153, Niagara Falls, Ontario, Canada.



Cherry-Nut Wreath Cake. Start with Betty Crocker Chocolate Devils Food Cake Mix. Use 1/4 cup maraschino cherry juice as part of liquid and add 1/3 cup each finely chopped cherries and nuts in first step of mixing. Frost with Betty Crocker Fluffy White Frosting Mix. Trim with wreath of green-tinted coconut and cherries.

"I guarantee a perfect* cake every time you bake

cake... after cake... after cake!"

says Betty Crocker of General Mills

NOW IN CANADA, TOO!

This year give food!

A little of your love goes with every gift you bake...

That's why a high, light, heavenly home-baked cake is such a warm and friendly way to spread the season's cheer!

Fix a big, glamorous cake, like our Christmas Wreath Cake, for your favorite neighbors. Let the children help make little "snowballs" to wrap up fancy and take to Grandmother. Bake lots and lots of gingerbread men. They're easy to wrap in gift boxes . . . old-fashioned fun on your tree . . . just perfect when small carolers come by!

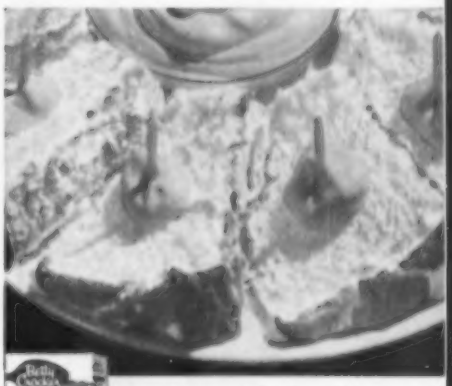
If you've been invited for Christmas dinner, take along a glorious angel food cake to trim with Christmas candles when you get there. Or when you're just stepping next door, say "greetings of the season" with a Honey Spice Loaf still warm from the oven.

See how many nice things you can say with cake—and it's so easy, when you use our guaranteed-perfect mixes. They're made with the same fine ingredients you'd use . . . Softasilk Cake Flour and high-quality shortening. So next time you bake, why not bake a second cake—one to serve and one to give? You'll make someone extra-specially happy!

Betty Crocker
OF GENERAL MILLS

PERFECT! Yes, all our Betty Crocker Mixes—Cake, Frosting, Brownie, Date Bar, Pie Crust, Answer Cake—are guaranteed to come out perfect, or send the box top to Betty Crocker, Box 200, Minneapolis, Minn., and General Mills will send your money back.

Mince Upside-Down. Melt 1 tbsp. butter in 9" sq. pan; add 1½ cups mincemeat, ½ of our White Cake batter. Bake 35 to 40 min. at 350°. Serve warm with hard sauce.



Christmas Candle Cake. Bake up a high, light Betty Crocker Angel Food Cake. (The whites of 13 eggs are in the mix.) Arrange slices around bowl of pink whipped cream.

Bake an easy gift! New Betty Crocker Answer Cake has cake mix, frosting mix, baking pan right in the package. Bake a lot for "little gifts."

Gingerbread Men. Homey gift. Make lots! Rolled-cookie recipe's on Betty Crocker Gingerbread Mix package. For piped-on trimmings, use Betty Crocker Peanut Creme Frosting Mix.

Hot Buttered Spice Cake. Use 1 extra egg yolk in Betty Crocker Honey Spice Cake batter. Bake in two 8½x4½x2½" loaf pans 35 to 45 min. at 350°. Serve warm with butter.

Snowballs. Cupcakes – see Betty Crocker Yellow Cake Mix package. Use Betty Crocker Fluffy White Frosting. Roll each in coconut.

Guarded by the ONLY 5-Year Guarantee You Can Give!

New Liqui-Blender—Blends twice as fast, twice as fine! Choice of two speeds. **$39.95** white; **$44.95** chrome.

New Mixette—Now in pink, yellow, turquoise, chrome, or white! **$21.50** chrome; **$19.50** colors.

New Automatic Toaster—Gives you toast at its best, and the only 5-year guarantee. **$19.95**

Home Drink Mixer—Makes real soda-fountain drinks, tasty fruit drinks. **$22.50** white; **$27.50** chrome.

New Food Mixer—Beats *everything* without a spatula! New Cake-Mix Timer (optional at just $5.00). **$42.95** white; **$53.95** chrome.

HAMILTON BEACH

HAMILTON BEACH CO., Div. of Scovill Mfg. Co., Racine, Wis.

Mrs. Santa's No-Cook Candy
(Makes 18 pieces)

- ¼ cup melted butter
- 2 tablespoons orange juice
- 1 teaspoon grated orange peel
- ⅔ cup dry milk solids
- 2 cups sifted confectioners' sugar
- ½ cup finely chopped nuts

Combine butter, orange juice, and peel. Gradually stir in dry milk solids and sugar, beating till smooth. Stir in nuts. Drop from teaspoonfuls onto waxed paper. Add few drops water if candy gets dry.—*Mrs. Elbert Whitcomb, New York.*

Brown Sugar Fudge (Makes 24 pieces)

- 2 cups brown sugar
- 1 cup granulated sugar
- 1 cup light cream
- ½ cup butter
- 1 teaspoon vanilla
- 1 cup chopped nuts

Combine sugars, cream, butter. Cook to soft-ball stage (238°), stirring occasionally; add vanilla. Cool to lukewarm (110°). Beat till mixture loses its gloss. Stir in nuts. Pour into buttered 10x6x 1½-inch pan. Cool and cut into squares. —*Bessie Kennedy, Nebraska.*

Peanut Butter Nut Roll (Makes 48 slices)

- 2 cups sugar
- 1 cup brown sugar
- ½ cup light corn syrup
- 1 cup light cream
- 1 teaspoon white vinegar
- ½ cup peanut butter
- 1 cup sifted confectioners' sugar
- ½ cup finely chopped pecans

Combine sugar, brown sugar, corn syrup, cream, and vinegar. Cook, stirring till sugars dissolve, to soft-ball stage (238°). Cool, without stirring, to lukewarm (110°). Beat till creamy. Stir in peanut butter; mix till blended. Turn onto surface dusted with confectioners' sugar. Knead in confectioners' sugar to make firm (about 1 cup). Shape into a 2-inch roll, 12 inches long. Roll in chopped pecans, pressing nuts firmly into candy. Wrap in waxed paper; chill. Cut into ¼-inch slices.—*Mrs. L. W. Foubert, Iowa.*

Photographs: Stanley

Holiday Cinnamon Walnuts
(Makes 1 pound 10 ounces)

- 2 cups sugar
- ¼ teaspoon cream of tartar
- 1½ teaspoons cinnamon
- ½ cup water
- 2 teaspoons light corn syrup
- 3 cups walnuts

Combine sugar, cream of tartar, cinnamon, water, and light corn syrup. Cook to firm-ball stage (246°). Add nuts and stir till coated. Spread on waxed paper to cool, separating each nut.—*Mrs. Will Schott, Iowa.*

Candies for Christmas

Candymaking can be fun for the whole family. Get together and let each one choose a kind from these tempting recipes

Cut out these recipe pages and file them in your favorite cook book

Chocolate-Peppermint Nut Clusters
(Makes 20 clusters)

1 6-ounce package semisweet chocolate pieces
1 cup coarsely chopped walnuts
½ cup coarsely crushed peppermint stick candy

Melt chocolate over warm (not hot) water. Cool; mix in nuts and peppermint candy; stir till nuts are well coated. Drop by teaspoonfuls onto waxed paper. Allow to set.—*Mrs. Jo Hershline, Indiana.*

Chocolate-Coffee Fudge (Makes 16 pieces)

1 to 2 tablespoons instant coffee
3 cups sugar
Dash salt
1 cup milk
½ cup light cream
2 tablespoons light corn syrup
3 tablespoons butter
1 teaspoon vanilla
½ cup chopped pecans
1 6-ounce package semisweet chocolate pieces
Pecan halves

Combine instant coffee, sugar, and salt in saucepan. Add milk, cream, and corn syrup. Bring to a boil, stirring constantly. Continue cooking, stirring occasionally, to soft-ball stage (234°). Remove from heat. Add butter and vanilla. Do not stir. Cool to lukewarm (110°); beat till mixture loses its gloss. Add nuts and chocolate pieces; stir slightly for marbleized effect. Turn into lightly buttered 8x8x2-inch pan. Garnish with pecan halves.—*Mrs. George Miller, Ohio.*

Caroler's Cream Candy (Makes 25 pieces)

3½ cups sugar
1 cup light cream
¼ cup light corn syrup
½ cup chopped nuts
½ cup mixed candied fruits and peels

Combine sugar, cream, and corn syrup. Cook slowly to soft-ball stage (238°), stirring often. Cool at room temperature, without stirring till lukewarm (110°). Beat till mixture loses its gloss. Stir in nuts and candied fruits and peels. Spread in buttered 8x8x2-inch pan. Cool. When firm cut in 1½-inch squares.—*Mrs. L. W. Foubert, Iowa.*

SUCCESSFUL RECIPES Tested in Successful Farming's Tasting-Test Kitchen

Cut along dotted lines

Orange-Walnut Divinity
(Makes 36 pieces)

½ cup strained orange juice
½ cup water
1 tablespoon grated orange peel
Dash salt
3 cups sugar
2 egg whites
½ cup chopped walnuts

Combine orange juice, water, grated orange peel, salt, and sugar in saucepan; heat slowly till sugar dissolves, stirring occasionally; then bring to rapid boil and boil without stirring to medium-ball stage (244°). Beat egg whites till stiff, but not dry. Slowly pour hot syrup in even stream over, beating constantly till mixture will hold stiff peaks. Fold in nuts. Drop by teaspoonfuls onto waxed paper about 1-inch apart. Let stand till firm.—*Mrs. George Dorsett, Indiana.*

Candies for Christmas

continued

Gifts of homemade candy are sure to please holiday sweet tooths. Wrap packages gaily including a variety of goodies in each one

CRANE

Wouldn't you rather remodel with Crane?

(costs no more)

Almost any bathroom will look bright and new for the first few months. The important question is—how will it look years from now?

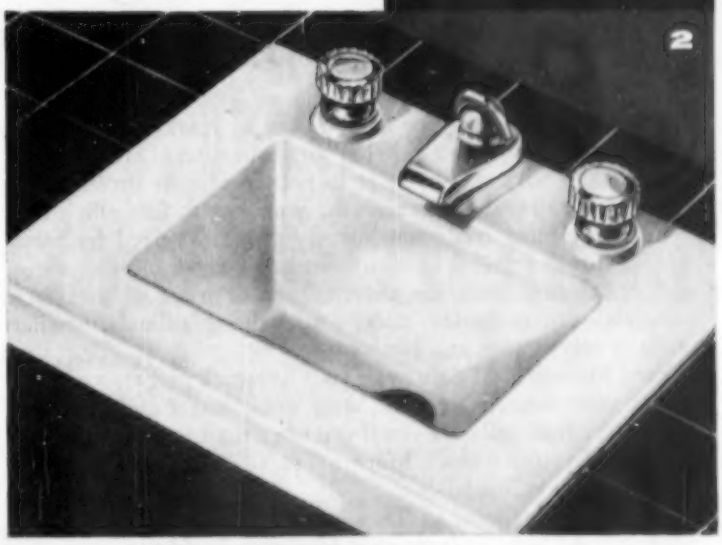
If you remodel with Crane, you know the answer. Crane fixtures are styled by famed designer Henry Dreyfuss to look fresh and modern years longer. (They'll operate like new years longer, too.)

And don't overlook this fact. When you equip your home with Crane, you increase its value far more than the amount you invest. Ask your friends in the real estate business.

The best part is—you pay no more for Crane quality. Any wonder more people prefer Crane? Don't you?

CRANE CO.
836 South Michigan Avenue, Chicago 5
VALVES · FITTINGS · PIPE · KITCHENS · PLUMBING · HEATING

Ask your Crane Dealer about the special home improvement services he is offering.



All Crane lavatories are available in seven lustrous colors or white. Prices start as low as $33.70.*

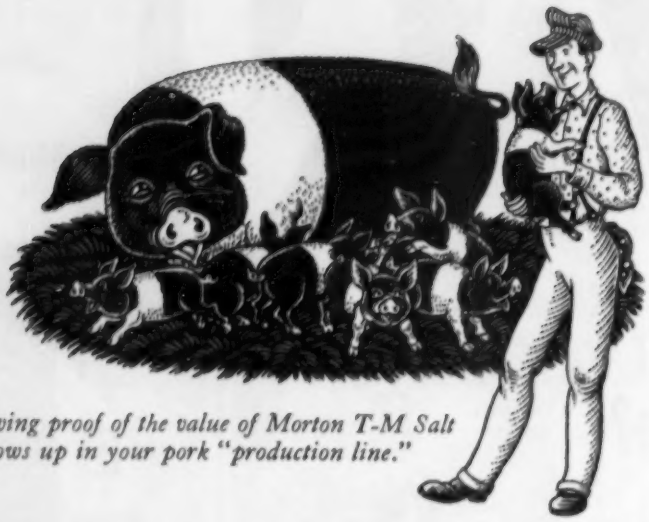
1 Drexel Bathroom Suite. Here's an exciting bathroom that gives you luxury at moderate price. The beautiful Drexel lavatory and water closet with Criterion tub.

2 Criterion. Most luxurious lavatory made. Presented Gold Medal Award by Architectural League of New York. 21½" x 17¾" size. Prices in white start at $120.50.*

3 Oxford. A popular Crane lavatory with convenient bevel control panel and rectangular basin. Prices in white start at $53.20.*

**Suggested consumer prices, ready to install.*

All lavatories are lustrous vitreous china, tub is porcelain enameled cast iron. Controls feature Crane's exclusive Dial-ese faucets—close *with* water pressure, not *against* it.



Living proof of the value of Morton T-M Salt shows up in your pork "production line."

Morton *Trace-Mineralized* Salt for healthier hogs, healthier profits

ONLY one extra pig per litter raised to market weight will bring in enough money to pay for about a ton of Morton T-M Salt. That's why we say it is insurance against unnecessary losses from mineral deficiencies . . . your key to feed efficiency.

College feeding trials conclusively prove the need for trace minerals in the rations of all livestock. The lack of even one—and most farm lands are short of one or more of the trace minerals—can mean less milk, poor gaining animals, smaller crops of calves, pigs and lambs.

Feed Morton T-M Salt to all your livestock and assure yourself of *more* meat, *more* milk, *more* wool, and a higher return from every feed dollar. Even if you use a major mineral supplement, feed your livestock Morton Trace-Mineralized Salt, free choice, the year 'round.

You know they need it. They know how much. Always order Morton T-M Salt. It is the only kind you should use.

Less than 1¢ per animal per week is all it costs to feed Morton T-M Salt instead of ordinary salt.*

Beef Cattle: *Less than ¾¢ more*

Swine: *Less than ⅛¢ more*

Dairy Cow: *Less than 1¢ more*

Sheep: *Less than ¼¢ more*

*Based on the national average salt requirements per animal.

TRACE MINERALS ARE THRIFTY MINERALS { COBALT IODINE COPPER ZINC IRON MANGANESE

MORTON TM TRACE MINERALIZED SALT

At your feed dealer's—bags or blocks

Soils and crops

Water important in corn silking

Drouth affects the delicate timing between pollen production and silking of corn plants, Missouri tests indicate.

Unirrigated plots got only ¾ inch of rain during a 51-day period from June 10 until July 31 in 1954. The corn failed to shoot and produce silk. Irrigated plots gave good yields despite temperatures which ranged from 100 to 113 degrees on 22 days during the period.

On nonirrigated corn, 85 percent of the plants were without silks. This corn produced only 2 to 4 bushels per acre. Irrigated corn under the same condition produced from 60 to 85 bushels per acre, depending on the plant populations and soil treatments.

Big factor for the corn grower who may be considering irrigation is the fact that the corn crop may be made or lost within a critical 2-week period. In this case the last 2 weeks of July was the period when corn had to have water to make a crop. It could vary, of course.

Air temperature and humidity measurements were taken daily during the critical period, but both were found to be of minor importance in relation to the development of silk and tassels where corn had moisture. Even temperatures of 107 to 113 showed no consistent influence.

Wet method of inoculation best

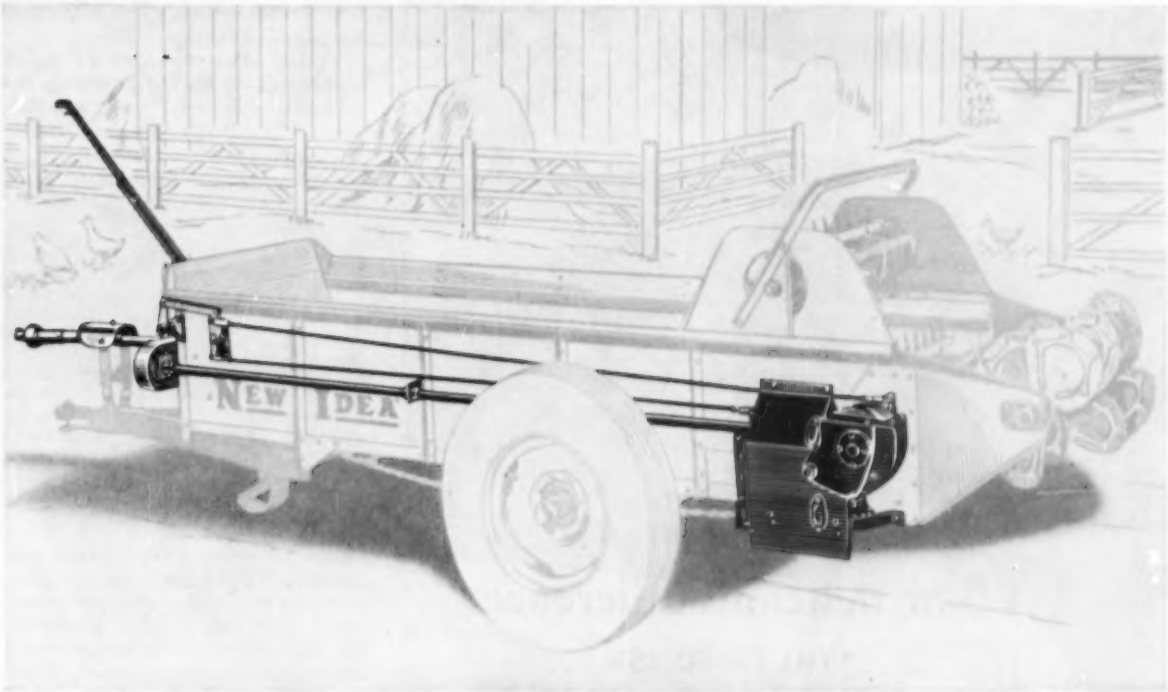
Wet inoculation of legume seeds is more effective than dry inoculation.

The wet inoculation method calls for moistening the seed before adding the inoculant, or else making a paste of the inoculant and water, then mixing it with the seed. In the dry method, the inoculant is added directly to the dry seed in the planter or drill box.

In response to numerous requests the Agricultural Research Service made tests to determine what happens to the inoculant after it is placed in the drill box. These experiments showed that humus-type inoculants retained on dry soybeans averaged 20 to 30 percent under field conditions; but over 80 percent stayed on wet soybeans. On dry clover seed, about 35 percent stayed, compared to over 80 percent on wet clover seed.

A disadvantage of the dry method is the rapid sifting of inoculant. Field tests on dry soybeans showed the first seeds drilled from a freshly filled planter box received more than twice their fair share of inoculant, while seeds drilled a few rounds later received only about a third of their fair proportion.

Here's the New Idea spreader farmers have been asking for...



Brand New...PTO-driven, with clutch for easy cleanout

Newest New Idea spreads it best . . . built tough for longest life . . . easy to hitch, load, clean out

Now, you can get the popular 95-bu. NEW IDEA spreader with PTO and clutch for easy cleanout — plus many other features only available before in the giant 125-bu. model. Remember — this popular size spreader is now available in either PTO-driven or ground-driven models.

Rough on manure to spread it best. The new No. 200 has many of the features of the No. 17 and No. 19 to give you the finest shredding and spreading. The U-shaped, blade-like, triple staggered teeth on both cylinders give the No. 200 extremely fine shredding. 10 widespread replaceable paddles with involute curve, fling the manure evenly. Slanted upper arch makes loading easier. There's a choice of five unloading rates.

Built tough for longest life. The new No. 200 is guaranteed a full year by NEW IDEA. Yellow pine box is water repellent penta-treated, and hot painted. Full length steel flares and steel endgate take the hard knocks of mechanical loading. Tubular distributor shaft, phenolic bearings for lower cylinder and distributor shaft, and neoprene grease lines are additional reasons why you can depend on the new No. 200 for a long, dependable life. And greater value at trade-in time.

Best idea yet . . . get a New Idea

Easy and safe to handle. Like the new giant No. 19, the No. 200 has many new safety and convenience features. There's a quick latch PTO connection; and PTO shaft is completely shielded. Footed parking stand is adjustable to drawbar height. Feed mechanism is fully shielded for safety and longer life. And the new throw-out clutch makes cleanout a cinch.

See the new No. 200 NEW IDEA spreader at your NEW IDEA dealer's. Or write today for new literature. Be sure to mark the coupon to get the new free booklet on manure handling.

NEW IDEA FARM EQUIPMENT CO., DIVISION AVCO DISTRIBUTING CORP.

Dept. 2001, Coldwater, Ohio

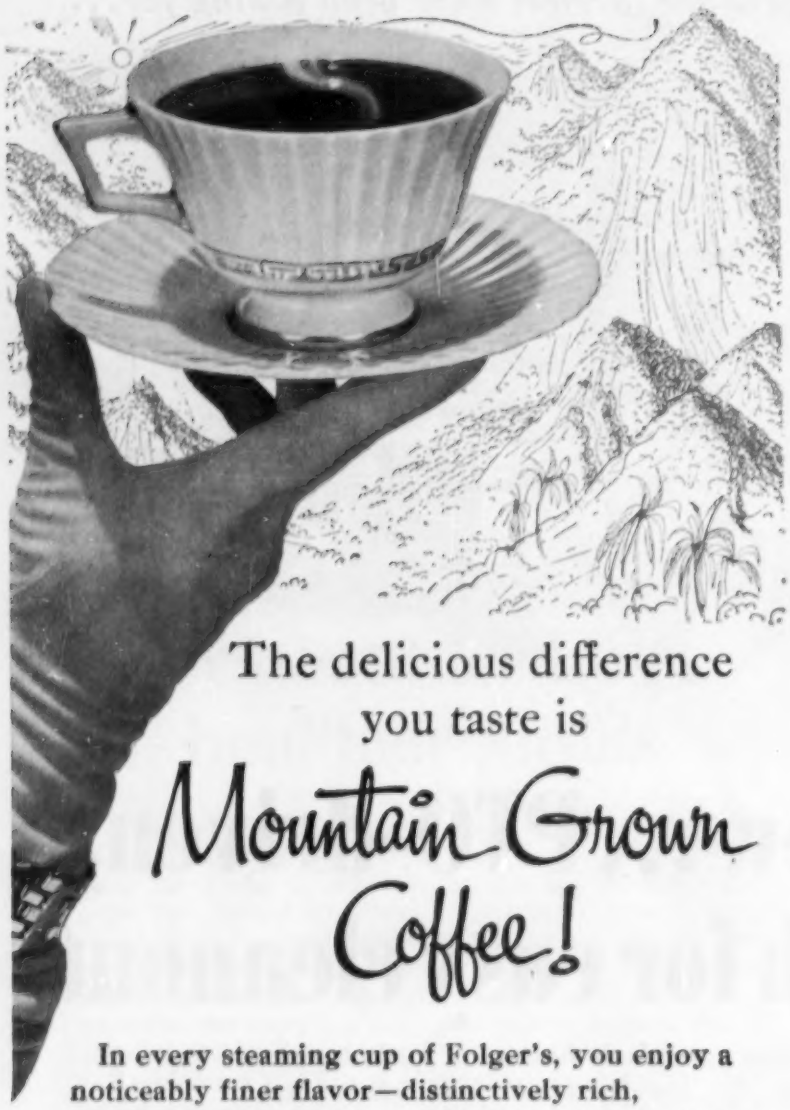
Please send me the literature I have marked on

- ☐ 125-bu. PTO spreader
- ☐ 95-bu. PTO spreader
- ☐ 95-bu. spreader
- ☐ 75-bu. 4-wheel spreader
- ☐ 70-bu. spreader
- ☐ manure handling booklet

Name_____

Address_____

Town_____ State_____



The delicious difference you taste is

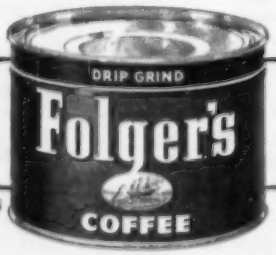
Mountain Grown Coffee!

In every steaming cup of Folger's, you enjoy a noticeably finer flavor—distinctively rich, unusually tangy. Because Folger's is a unique blend of nature's choicest coffee—grown in remote mountain regions, where there is an abundance of fertile volcanic soil, warm tropic sunlight and rain.

This rare mountain coffee is conceded to have the most satisfying tang and flavor of any coffee known today.

And this is the rewarding flavor that comes to you in Folger's! It's Mountain-Grown coffee. You'll call it delicious.

So much richer in flavor that you are urged to use 1/4 less than with lesser flavored brands.



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Folger's Coffee... *It's Mountain-Grown!*

REGULAR, DRIP AND FINE GRINDS—ONE AND TWO POUND CANS

They built fun

From page 52

who, 2 years ago, was succeeded by Pastor John G. Helgeson.

"The members themselves do 99 percent of the planning and the work as the program is now set up," says Pastor Helgeson. "The Parish League represents the members from four churches—Bang, Bethlehem, Elim, and Our Savior's. Both parents and their children attend the Sunday evening meetings during June, July, and August."

Each spring soon after Easter, the Parish officers meet, determine a yearly program, and appoint responsible committees. For instance, for this year's Fall Festival, committees were appointed for the program, recreation, buildings, grounds, hauling, parking, games for children, publicity, hot dog stand, pop stand, and the public address system.

The recreation center is located on 10 acres of ground belonging to the Parish. The more shaded area is ideal for religious services and other special programs held during the summer months.

In the more open area are swings, slides, teeter-totters, and sandboxes for the small children. Older youngsters and adults have 3 volleyball courts, 2 ball diamonds, and a basketball court.

With the exception of the softball diamond for "grownups," the area is well illuminated with lights mounted on 8 utility poles. This arrangement also provides an electrical outlet for the projector when movies are shown outdoors. Other recreational equipment includes horseshoes, croquet, and shuffleboard.

The Sunday evening meetings begin with a recreation period followed by a devotional period from 8 to 9 p.m., then lunch and more recreation. Pastor Helgeson reports that some of the "diehards" don't go home until midnight.

Children, large or small, few or many, may often tear up a house—but it is seldom they ever break up a home.

On the Fourth of July and Labor Day special all-day programs are planned. A guest speaker is obtained, volleyball and softball tournaments are held. Stunts, relay races, pony rides, and airplane rides add to the excitement. The ladies serve a full chicken supper and in the evening the younger members present a play on a homemade stage under the stars. Attendance has been as high as 600 to 700 for the special day programs.

"We hope that in the near future we will be able to build a parish hall on the grounds so that much of this program can be carried on into the winter months," says Pastor Helgeson. "The program to date has provided a recreational outlet in a Christian setting for the members and has built up a spirit of unity and cooperation among the congregations."

THIS IS THE YEAR OF THE

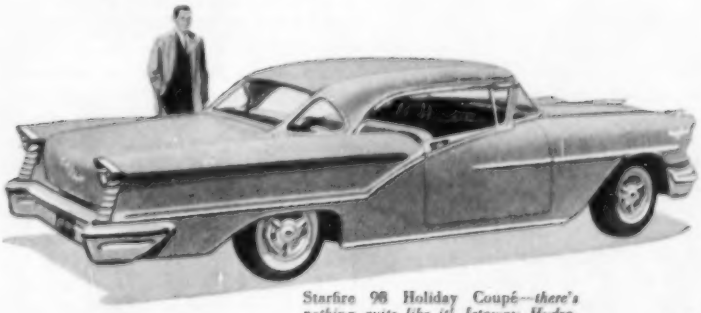
Golden Rocket!

Above, new 1957 Golden Rocket 88 Holiday Coupé, pictured in the new General Motors Technical Center. Six other stunning new models are also available in this budget-priced series—all powered by the new 277-horsepower Rocket T-400 Engine!

FOR '57...THE *Accents* ON

OLDSMOBILE!

Super 88 Fiesta—*Oldsmobile introduces a brilliant new combination of hardtop glamor and rugged utility—smartest new model for the station wagon set!*



Starfire 98 Holiday Coupé—*there's nothing quite like it! Jetaway Hydra-Matic Drive, Power Steering and Power Brakes are all standard equipment.*

Here's value . . . with the accent on YOU! Oldsmobile for '57—lower by far, longer in line, distinctively different in every detail! Highlighted by Oldsmobile's exclusive Accent Stripe and a higher, wider Span-A-Ramic windshield. (For you, this means the satisfaction of driving a style leader—a car that will hold its value.)

New in power with the Rocket T-400 Engine—up in torque (400 lb.-ft.) and high-compression horsepower (277). (You get economy when you want it—power when you need it.)

Engineered from the ground up, with the rugged Wide-Stance Chassis (for cornering ability, sure-footed stability). New Pivot-Poise Suspension with Counter-Dive (means smooth, level stops). New L-Bow Propeller Shaft (secret of a lower center of gravity). New Tech-Style Interiors (fashioned at GM's Tech Center). New Strut-Mounted Instrument Panel (easier accessibility and visibility).

All this in three series . . . Golden Rocket 88, Super 88, Starfire 98. (Seventeen models to choose from . . . one just right for you!)

NOW ON DISPLAY! **Your Oldsmobile Quality Dealer Invites You to His Gala Announcement Showing!**

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Won't COME OFF

Baby-safe . . . because the cotton is *tight-spun* on the stick.

BUDS are the *only* cotton swabs that give you *all* these advantages:

- 100% Sterile Red Cross Cotton.
- Smooth, splinter-free birch sticks.
- Baby-soft, baby-size.

Johnson & Johnson

The angel

From page 33

men,' indeed! The trouble with a lot of you saints is you do not keep up with things. Look down there at that place called earth! Look at it! Look what a mess it's in! 'Peace on earth'—forsooth. Through bloody fighting Egypt and Spain have been annexed to the Roman Empire. Look down there at your precious Jerusalem. Before three-quarters of this very century has passed, Titus will come along, tear that city apart and destroy its temple. 'Peace???' All you angels are singing 'peace' when there is no peace. There never was, and there never will be!"

Gabriel was a very patient angel, but this time he was annoyed. Part of his annoyance was because he had no very clear explanation to the matter.

"Either you sing, Master Smith—or we will excuse you!"

Sadly the little angel who refused to sing sighed a deep sigh and with a gesture of despair, as though to say, "What's the use of trying to explain how I feel about that song?" unhappily left the room.

Gabriel soon had the chorus singing again. For after all, gifted as the little angel was, the heavenly chorus was not dependent on any one voice. Muforaj, downcast heart and all, thrilled as he listened, shuffling along the path to the tumtum forest.

And it came to pass, as the city of David, the little town of Bethlehem, lay wrapt in deep and dreamless slumber, that "angels from the realms of glory" were winging "their flight o'er all the earth." "Shepherds, in the fields abiding," were "watching o'er their flocks."

"And lo, the angel of the Lord came upon them, and the glory of the Lord shone round about them; and they were sore afraid."

And Gabriel said unto them, "Fear not; for, behold I bring you good tidings of great joy, which shall be to all people.

"For unto you is born this day in the city of David a Saviour, which is Christ the Lord.

"And suddenly there was with the angel a multitude of the heavenly host praising God and singing, 'Glory to God in the Highest, and on earth peace, good will toward men'."

And the angels sang more beautifully than they had ever sung before. And God heard the song, and was well pleased. But in heaven there was one little angel who had refused to sing. The one with the sweetest voice of them all.

And it came to pass that the angels were gone away from the shepherds into heaven. And God walked in the tumtum garden in the cool of the heavenly day. And suddenly, Muforaj, the tiniest angel of them all, felt the presence of God. And the glory of the Lord shone round about him—but he was not afraid. He stood respectfully, with his curly head bowed.

And the Lord said unto him: "What doest thou here, Muforaj? The heavenly chorus sang more beautifully than ever before. Yet I missed one voice. Thine, my child. Why art thou here?"

"My Father, I could not sing. How can I cry 'Peace, peace on earth' when there is no peace? To do so, seemed to me, but to proclaim a lie."

"Who art thou, Muforaj, to question the everlasting word of God? Stubborn little one—the song does not say that peace *is* upon earth. The song proclaims that because of Him who is born this day, that one day peace *shall* be upon earth, and that one day in the fullness of time, good will shall reign among ALL men. I, the Lord, have spoken it!"

And the righteous glory of God was more dazzling than the brightness of ten million noonday suns. And Muforaj fell on his face before that light.

"Forgive me, my Father, I have been wrong to question Thy law."

"Behold, thou art forgiven. Knowest thou who is born in the city of David this day? It is my Son, Muforaj; the Prince of Heaven and of Peace; my only begotten Son—in whom I am well pleased. Look now through the obscuring clouds of history. What seest thou?"

"I see a cross, my Father, and the form of one hanging upon it."

"Aye, a cross. And on that cross the Prince of Glory shall die. But only for a moment. For from the earthly bonds of death he shall rise again—with healing for the nations in his wings. He shall live eternally and shall be born again and again in the hearts of men throughout all time; till that day when every knee shall bow and every voice shall own him lord of lords and king of kings. In that day his kingdom will be finally established in the hearts of men and war shall be no more."

And it came to pass that after the Lord had gone away from him that Muforaj decided to go to Bethlehem to worship the Christ child. He hailed a cruising star and skyrocketed to earth. Magi in the distant East saw the star and began their toilsome journey till, later, they too came to the place where the Child was.

Muforaj stole quietly into the stable. Joseph was there, but he saw him not, nor Mary. But the infant stirred upon his mother's breast and listened.

"I will sing you my sweetest song, Baby Jesus. Hearken well. For the hopes and fears of all the years are met in thee tonight. I bring to you the gift of the singing heart. No matter how great your discouragements, your heart shall never know recoil. For you will know men at their worst, yet see in them their best."

And so Muforaj, the little angel who had refused to sing, sang now.

"Glory to God in the Highest, and Glory to His Son on earth, the Prince of Peace!

"Joy to the World! the Lord is come; let earth receive her king; Let every heart prepare him room, and heaven and nature sing."

The Babe sighed upon his mother's breast and turned to sleep. The Eternal "Word" of God had become flesh.

This Kroehler Relaxer Chair in nubby tweed as shown, $89.50

Kroehler Relaxer Chair in heavy-textured fabric and leather-like upholstery, as shown, $119.50

ONLY THE KROEHLER RELAXER CHAIR GIVES YOU SUCH WONDERFUL COMFORT

Now—just in time for Christmas giving—Kroehler Dealers everywhere are featuring the exclusive new Kroehler Relaxer Chair! A great gift for Dad, Mother—the whole family!

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- **Built-in Balance**—no locks, no clamps.
- **Foot-Rest gives gentle support** to calves, ankles, feet.
- **Back, Seat and Foot-Rest** move individually in comfort-coordinated action.
- **Overall Support** to all points of body—vital to truly relaxing comfort.
- **Full Arm-Rest** support at all reclining positions.
- **Cone-Coiled Spring Construction** throughout seat and back.

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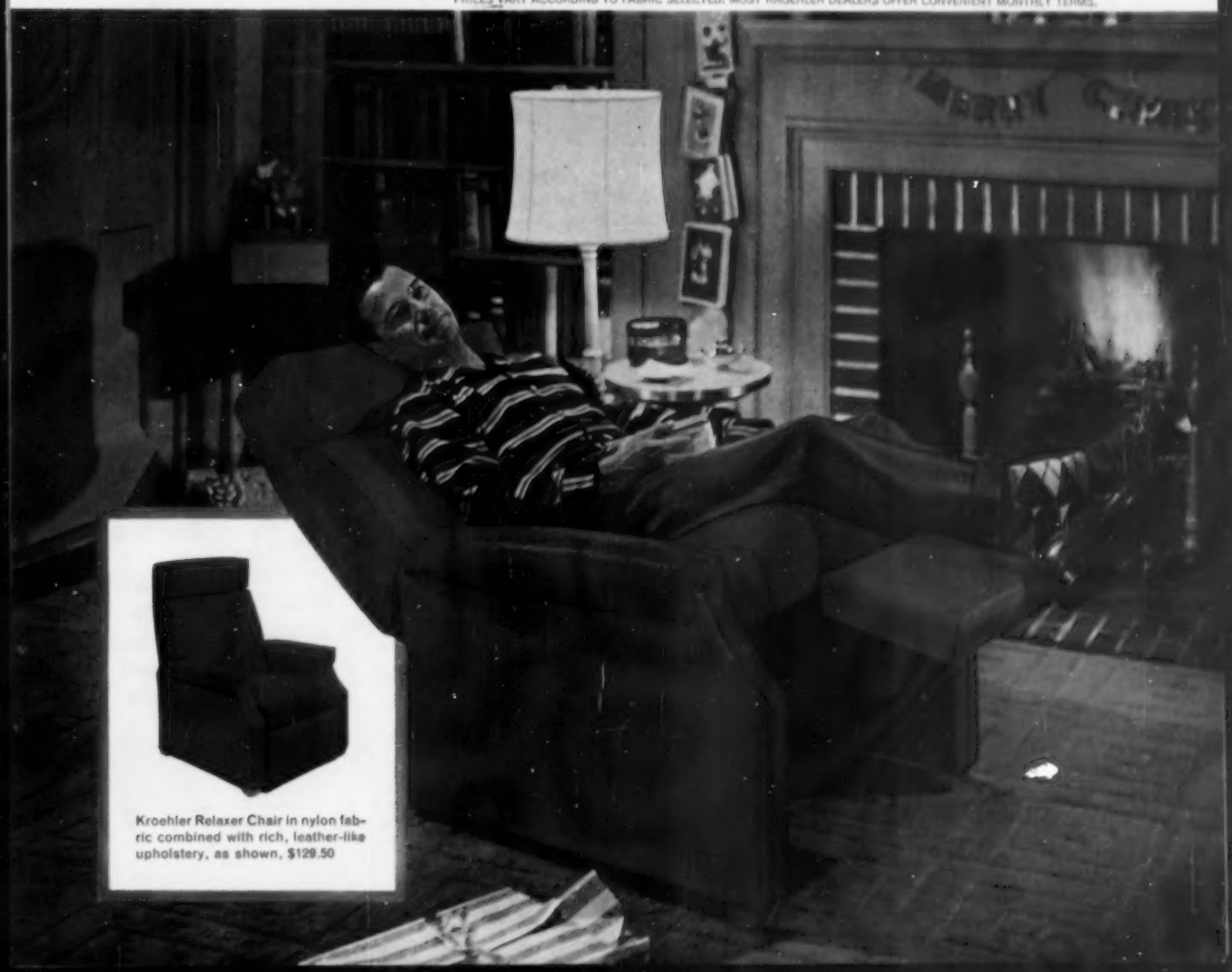


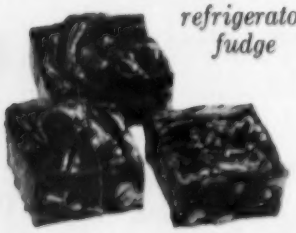
Kroehler Relaxer Chair in nylon fabric combined with rich, leather-like upholstery, as shown, $129.50

Fabulous holiday cookies and candies for party-time fun...wonderful

Goodies for giving

Make homemade cookies and candies smoother, better with Karo Syrup. For success in holiday baking—golden light Mazola Oil.

when your recipes call for corn syrup that's **KARO®**



refrigerator fudge

no-cook fondant

quick popcorn balls

Swedish date-nut bars

no-cook peanut butter kisses

Lebkuchen

Sherry Christmas cakes

pecan bars

sugar cookies

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The golden liquid shortening for easier better baking

Free **HOLIDAY RECIPE BOOK**

HERE'S HOW TO GET YOUR COPY

Some of the recipes for the holiday candies and cookies are on the next page. ALL OF THEM . . . and many, many more . . . are in this brand-new recipe folder. The recipes are easy-to-read and follow. And the results are really something out-of-this-world.

WONDERFUL HOLIDAY

Recipes

So easy with **Karo® Syrup** and **Mazola® Oil**

"No-Cook" FONDANT

1/3 cup soft butter
1/3 cup KARO Syrup, Red Label
1/2 teaspoon salt
1 teaspoon vanilla
3-1/2 cups (1 pound) sifted confectioners' sugar

Blend butter, KARO Syrup, salt and vanilla in large mixing bowl. Add sifted confectioners' sugar all at once. Mix all together—first with a spoon and then with hands knead in dry ingredients. Turn onto board and continue kneading until mixture is well blended and smooth. Makes about 1½ pounds candy. Store in a cool place. Flavor and shape may be varied to suit taste.

"No-Cook" PEANUT BUTTER KISSES

1/3 cup KARO Syrup, Red or Blue Label
1/3 cup peanut butter
1/2 cup non-fat dry milk solids (such as Pet Non-Fat Dry Milk Solids)
1/3 cup sifted confectioners' sugar

Mix KARO Syrup and peanut butter in a small bowl. Stir in gradually non-fat dry milk and confectioners' sugar; shape into roll about ¾" in diameter. Roll may be decorated with chopped nuts. Chill. Cut into 1-inch pieces. Makes 24 pieces.

Quick POPCORN BALLS

1/4 cup MAZOLA Oil
1/2 cup popcorn
1/2 cup sugar
1/2 cup KARO Syrup, Red or Blue Label
1/2 teaspoon salt

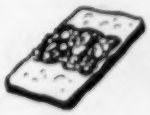
Heat MAZOLA in a 4-quart kettle over medium heat for 3 minutes. Add popcorn. Cover, leaving small air space at edge of cover. Shake frequently over medium heat until popping stops. Meanwhile mix together KARO Syrup, sugar and salt. Add to popped corn in kettle and stir constantly over medium heat 3 to 5 minutes or until corn is evenly and completely coated with mixture. Remove from heat. Form into balls, using as little pressure as possible. Use butter on hands, if desired. Makes 6 popcorn balls about 2½ inches in diameter. Do not double recipe.

PECAN BARS

1 cup sifted all-purpose flour
1/2 teaspoon baking powder
1/3 cup dark brown sugar, firmly packed
1/4 cup butter
1/4 cup dark brown sugar, firmly packed
3 tablespoons flour
2 eggs, beaten
3/4 cup KARO Syrup, Blue Label
1/2 teaspoon salt
1 teaspoon vanilla
3/4 cup chopped pecans or walnuts

Sift together first two ingredients. Stir in brown sugar. Cut in butter, using pastry blender or two knives, until well blended. (It will appear dry.) Pat evenly into bottom of pan (12x8x2 in.). Bake in moderate oven (350°F.) for 10 minutes.

Blend sugar and flour. Beat eggs; add KARO Syrup, flour mixture, salt and vanilla; mix well. Pour over partially baked mixture, sprinkle with chopped nuts. Return to moderate oven (350°F.) and bake 25 to 30 minutes. Cut into bars while warm. Makes 16.



Swedish DATE-NUT BARS

2 cups sifted all-purpose flour
1/2 teaspoon baking powder
1/4 teaspoon salt
1/2 cup sugar
3/4 cup soft butter
1 unbeaten egg
2 teaspoons vanilla
2/3 cup KARO Syrup, Red Label
1/3 cup cut dates
1/3 cup chopped nuts
1/2 teaspoon grated lemon rind

Sift together first four ingredients. Cream butter, beat in egg and vanilla. Blend in dry ingredients. Place dough on lightly floured board; divide into 6 equal portions. Shape each portion into a roll about 12 inches long. Place rolls on ungreased baking sheets 3 inches apart; pat into strips about 2 inches wide. Bake in moderate oven (350°F.) 10 minutes. Meanwhile mix remaining ingredients and simmer 3 minutes or until thickened. Remove baking sheet from oven. Spread center of each strip with KARO mixture and return to oven. Bake about 10 minutes longer or until cookies are light brown. While still warm cut diagonally into bars. Makes about 6 dozen cookies.

FREE recipe book

Shown above are just a few of the many wonderful recipes you'll find in this handy-to-use holiday recipe booklet. Many holiday gift wrapping ideas too! Here's a holiday treasure, 16-page booklet, you'll use over and over again.

Send today

To get your free copy just send your name and address on a postcard to: Recipe Book, Box 792, Camden 1, N. J.

How to make party

Decorations

With a little time, a few bits of felt, styrofoam, and colored paper you can make the decorations shown on pages 42 and 43

Mrs. Santa centerpiece: Make cardboard cone from ¼ of 20" circle; staple or glue together. Wrap 2 pipe cleaners 12" long around top of cone for arms, and third one out of top of cone, gluing wooden bead on top for head. Cover bead with yarn for hair and eyebrows. Use felt for eyelashes, nose, mouth, and glasses.

Cut red felt 3½"x4½" with rounded corners for hat. Sew ribbon across top and tie under chin. Tuck in fur or cotton for hat trimming. Pad shoulders and bust with cotton. For blouse, cut 2 sleeves 5"x6", and bodice 7"x4½" from red felt. One of these should be cut down center from top to bottom for opening down back. Sew sleeves and blouse together, trim. Put on doll and sew back opening.

Make cape from 7½" circle of felt slit to center. Attach ribbon at neck to tie, or fasten with snap. Trim cape with fur or braid. Skirt is cut from 19" circle of felt. Slit to center and cut hole in center large enough to fit waist of doll. Wrap around doll, sew up back. Trim skirt in cotton or fur and braid to match cape. Muff is 3"x4" piece of fur or cotton sewed together with holly leaves attached. Hold in place by slipping hands inside.

Invitations are made by using 3 pipe cleaners—2 for body and legs, and third across top to form T, which are used for arms. Bend in place for arms and legs. Attach wooden bead at top of pipe cleaners for head. Make hair of colored yarn glued on. Paint on face.

Make dress same as large doll, using 8" circle for dress, 4" for cape. Trim in cotton or braid. Make hat of small circle of felt with ribbon or yarn tied under chin. Muff is made of cotton glued to felt and rolled and sewed. Put invitation in muff.

Felt glass holders: Use strip of felt 9" long and 3" wide, and 2½" circle of felt for bottom. Using yarn, sew bottom to the strip, allow ½" overlap and sew up back. Tie with small jingle bell. Attach holly leaves made from green and white felt, add red sequins for berries.

Snowman: Make invitations of styrofoam cut in shape of snowman. Glue on hat; broom cut from paper or felt. Trim with sequins for face and buttons. Write invitations to party on colored paper, glue on back.

Centerpiece: Use 3 balls of styrofoam in graduated sizes, stick together with toothpicks. Make hat from felt or colored paper, also scarf and broom. Make face with sequins and felt. Sequin buttons finish front.

NEW Even Better
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6 to 12 MORE EGGS
THAN LAST YEAR'S
HY-LINE* LAYERS
. . . and last year's topped commercial Leghorns by 2 to 3 dozen eggs!
These new layers are outstandingly the best in Hy-Line history. They have hit a new Hy-Line high for intensity, persistency, and efficiency of production. Livability is high.
Egg size and grade quality are high and predictably uniform, for both the white-egg 934-A, and the cream-egg 123.
We recommend these two great new Hy-Line layers to you with pride and confidence. They can further improve your laying flock profit picture.
Order them from your local Hy-Line distributor or salesman . . . or write to the address below for further information.
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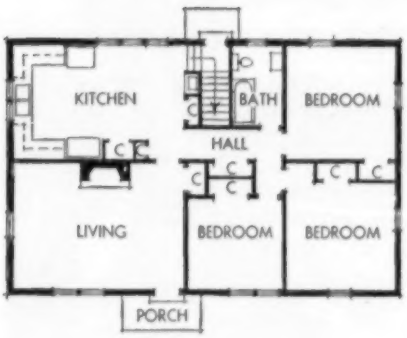
Here's an inexpensive, good farmhouse plan

The Schulze farmhouse is one designed for economy, yet it has the features that are important to have in a house on a farm.

New driveway will have a parking area, convenient for guests to use, near walk leading to the door.



Notice how traffic circulates in this plan. It goes to any room without interfering with the activities in any of them. A wash-up area and a work-clothes closet is near the rear door.

Bathroom is convenient to all rooms and there's a "straight shoot" to the basement from the rear door.

If you need a roomy home with a lot of modern features, you'll be interested in the Wesley Schulze plan.

This young Warren County, Missouri, couple with small children looked at several plans. They wanted a big kitchen and living room plus a basement recreation room for their family. But like a lot of young farm folks today, they wanted to keep costs down.

Being a fair carpenter and also able to trade work with his two brothers, Schulze decided to build his own home. He and Mrs. Schulze liked the U.S.D.A. Plan 7011, available from any state college. They obtained the blueprint and made a few changes to fit their particular needs. On the exterior they built a roof overhanging the full length of the living room and eliminated a small porch. Result, they felt, was a pleasing roof line and a more imposing home.

Then to get more space, they added 2′ to the length and 1′ to the width. This made the over-all width 27′6″, Schulze says, and actually didn't take any extra lumber, since he was able to use straight 14′ lumber for joists in floors and ceiling.

Cost of the material for this 3-bedroom, 44′8″x27′6″ home, including a little hired labor was $7,000. This included modern bath, full basement, central heating, rock-wool bat insulation, as well as a number of other features such as extra windows in the end and a big picture window in front. The Schulzes used asbestos shingles for siding.

Other changes made in Plan 7011 consisted of moving the back entry to line up with the basement stairway. This permits moving such equipment as a home freezer or washer to the basement without going around a corner, a feat that is sometimes impossible.

Their kitchen is U-shaped. Birch plywood cabinets were custom-built and contracted for at a cost of $550, included in the above over-all cost.

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RAPID HEALING

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"Make Yours a Well-Dressed Home," a 35 mm *Successful Farming* filmstrip in color. Film, records, printed commentary—$9.50

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Never back to dairying

From page 37

bigger, stronger, and more vigorous pigs.

To justify the cost of a new farrowing house, the Hamre brothers decided on a year-round farrowing program. And by building the house slightly higher than necessary and adding an upstairs floor, the building would house 2,000 broilers four times a year. The first floor became headquarters for a 100 brood-sow/1,650 feeder-pig operation.

But while they were getting into the hog-raising operation, the broiler demand grew rapidly and more room was needed. First, birds were put in on the ground floor of the 34'x86' dairy barn. The stanchions and other equipment were left in place in case they ever decided to go back to dairying. Later, broilers took over the haymow floor. But the building still did not measure up to efficiency standards. A third floor was added above the haymow level, bringing the capacity of the barn to 10,500 birds per batch four times a year.

Automatic feeding and watering equipment keep labor requirements to a minimum. When a batch of birds is marketed, the building is thoroughly cleaned, disinfected, and freshly bedded. They use a manure scoop on a tractor to clean the ground floor. Litter is pushed off top floors through trap doors to a manure spreader below.

The Hamre brothers started marketing their feeder pigs through a marketing association, but the demand grew in their community to the point where all of their pigs are now marketed on standing orders to farmers within 10 miles of their farm.

Customers buy feeder pigs year after year on standing orders, asking for certain numbers of pigs at certain times during the year. Demand above these orders is strong enough to take up surpluses that may develop. Orders are booked on basis that they will be filled if a surplus develops over orders by regular customers.

"When we started raising broilers," says Earl, "we felt that a 3.3 or 3.5 feed conversion record was pretty good, that is 3.3 or 3.5 pounds of feed to make 1 pound of meat.

"Now broiler production records are consistently near 2.5 pounds of feed per pound of meat, a very good ratio." While this article was being prepared, the Hamres sold 5,000 birds weighing 3.53 pounds at 9 weeks with a 2.55 feed conversion record!

Because broiler feed conversion records are so important, the Hamres looked for them in buying their first swine breeding stock. "The way we get them," they explain, "is through the University of Wisconsin, which buys some of our pigs for experimental purposes and feed conversion records they compile are given to us.

"To improve feed efficiency in our stock, we are importing boars from Prince Edward Island, Canada, where closer records are kept on feed conversion as well as on carcass cutout values."

The Hamre brothers are satisfied with feed conversion records anywhere below 3.5. "The last reports we got from the University indicated that our pigs were at the 3.3 to 1 level," says Earl.

The Hamres normally weaned their pigs between 4 and 5 weeks in the past. But by using a new, highly palatable nursing feed that starts them eating sooner, they now wean pigs weighing 18 pounds at 3 to 4 weeks, figuring on 40-pound pigs at 6 weeks. "All of our feeders are sold by weight, the farmer pays for only what we deliver," says Earl.

"We've said for quite a while," Bob says, "that the hog industry will have to follow poultry right down the line on breeding for better feed conversion and faster meat production."

Operations are divided on the Hamre farm. All major decisions are made jointly. Earl is in charge of poultry; Bob in charge of hogs. Both fully understand problems of each operation on the farm.

Eight years of developing their poultry and 6 on their hog enterprises have convinced the Hamre brothers they would never go back into dairying for these three major reasons:

1. Disease and sanitation. "When hogs or chickens contract diseases, we not only turn to powerful medicines, but we can clear out the infected stock, if necessary, at lower cost than with cattle, clean

[*Turn to page 72*

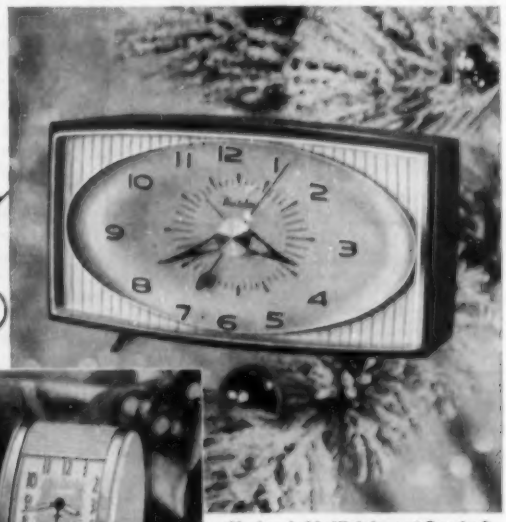
shop early and have fun

choosing these lovely Westclox for Christmas!

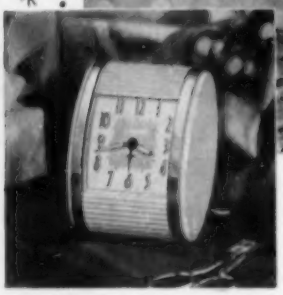
A Westclox is a long-remembered gift—cheerily repeating your "Best Wishes" every hour of every day.

Bright new Big Ben!... delightful surprise for those who have depended on this name all their lives. New BIG BEN is a handsome fellow with cone-shaped crystal... new finishes, too! Either spring or electric, **$6.95.** Luminous, a dollar more.

Beauty in Brass. Here's a heart-lifting idea—whether it's for her kitchen, his office or study, or a gift for your own home. Trim and gleaming, brass-finished SPICE electric wall clock goes with any type furnishings. Mounts flush. 5½" dial. **$5.95.**



Nonbreakable High-Impact Cycolac* case. Dad would love this—the first electric clock with a case that can't crack, chip or peel! It's ELLSWORTH electric alarm, handsome in gray with red and brass dial, or black with pearl-white and brass dial... and only **$8.95.** *Reg. T. M. Borg-Warner Corp.



Closes like a clam! An exclusive design—TRAVALARM tucks into corner of bag. Sliding shutter front, easel back close for traveling. Luminous dial, shatter-proof crystal. Ivory or walnut finish with gold-color trim; black with nickel trim. **$9.45.**

Electric or Spring

WESTCLOX

Made by the makers of **BIG BEN**

...dependable as the day is long

PRODUCTS OF GT CORPORATION

Remember, a luminous dial can be seen in the dark.

WESTCLOX, La Salle-Peru, Illinois · *In Canada:* Western Clock Company, Ltd., Peterborough, Ontario. *Prices quoted for U.S.A. only, do not include tax and are subject to change*

NOW... A TRUCK AS RUGGED AS IT LOOKS—

READY TO EARN ITS KEEP!

'57 STUDEBAKER TRANSTARS are here!

SIX WAYS BETTER THAN THE NEXT BEST TRUCK

1. **Championship Economy** . . . Thrifty Sixes and short-stroke Eights save gas, save wear—mile after mile after mile.
2. **Surer Traction** . . . Twin-Traction Differential* keeps your truck on the job while others wait out the weather.
3. **Safer Control** . . . Easy cross-link steering, oversize brakes and automatic Hill Holder* give you positive control in any situation
4. **Steadier Ride** . . . Load-rated front suspension and two-stage rear springs give balanced cushioning for any load, any road.
5. **Higher Efficiency** . . . The right truck for your job—912 combinations, ½-ton through 2-ton heavy-duty. Overdrive* on all.
6. **Bigger Load Area** . . . Exclusive double-wall box construction. Widest clear floor space in any pickup. No wheel wells! So *all* floor space is clear.

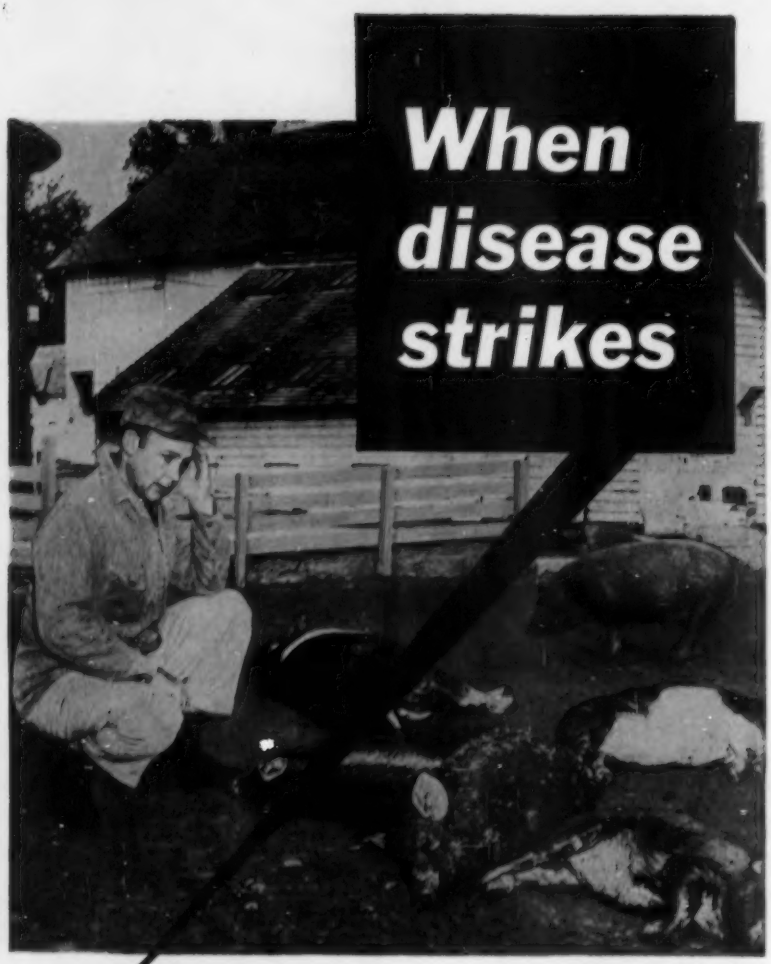
*Optional at extra cost.

Meet the new Transtars for '57. They look rugged and they are rugged—built to earn their keep—priced *lower* than comparable trucks. Discover the money-making difference . . .

SEE YOUR STUDEBAKER DEALER

STUDEBAKER-PACKARD CORPORATION

Where pride of workmanship comes first!



What to do

The most important thing to do is to call a veterinarian, when first signs of sickness appear in your herd.

Don't wait until some animals are actually "down". By then it may be too late. The promptness with which you get a veterinarian on the job may determine how many of the herd you will save or lose. When you note the first signs of an animal or two going off feed or not doing well—that is the time to get professional veterinary service, to correct the condition before it gets out of hand.

Above all, do not attempt to "dose" sick animals until you know what is wrong. Many diseases look alike. A treatment that could be correct for one might be wrong for another—and the consequences could mean even higher death losses. Your best rule is to call a veterinarian, promptly, and PLAY SAFE.

This message in the public interest is sponsored by American Foundation for Animal Health

Reduce handling costs . . .

HANCE ELEVATORS

Hance belt and bucket elevators are easily installed and economical to operate.

Six standard models — Capacities range from 50 to 1,000 bushels per hour.

For complete specifications and prices write

J. W. HANCE MFG. CO.,
Westerville, Ohio

PEERLESS "All-Purpose" Farm ROLLER MILLS

CRIMP—CRACK—GRANULATE
All small grains and ear corn
Feed DUST-FREE rolled grain for better feeding results. Roll it with a PEERLESS. Complete line stationary and portable mills. Write for LITERATURE.

PEERLESS EQUIP. CO. Dept. 301 JOPLIN, MISSOURI

COWPOX*

Ringworm, Teat Sores

*Blu-Kote dries up cowpox lesions, controls secondary infection. Germicidal. Fungicidal. protective wound dressing. Quick drying . . . deep penetrating. 4 oz. bottle $1.00 at drug and farm stores or write:
H. W. NAYLOR CO. • MORRIS, N. Y.

Never back to dairying

From page 70

and disinfect, and go back in again. Because of the investment in cattle, disease either has to be bred out or you have to live with it, hoping to overcome it by gradually weeding out the bad animals as fast as possible."

2. Labor involved. "We raise 56,000 broilers and over 1,650 feeder pigs from 100 brood sows with more automatic equipment, which means less work than needed to handle a 32-cow dairy herd with replacement stock."

3. Profits involved. "We made more net profit on chickens in the dairy barn last year than we would have grossed on a 32-cow dairy herd and had room for another 14,000 birds on the farm plus over 1,650 feeder pigs. Our dairy units would be limited and so would our profit.

"We feel that we have disproved the theory on which many farmers operate," say the Hamre brothers. "We have made a consistent profit on both chickens and hogs despite market fluctuations. We haven't had to drop out of either because of prices, coming back later as many farmers do."

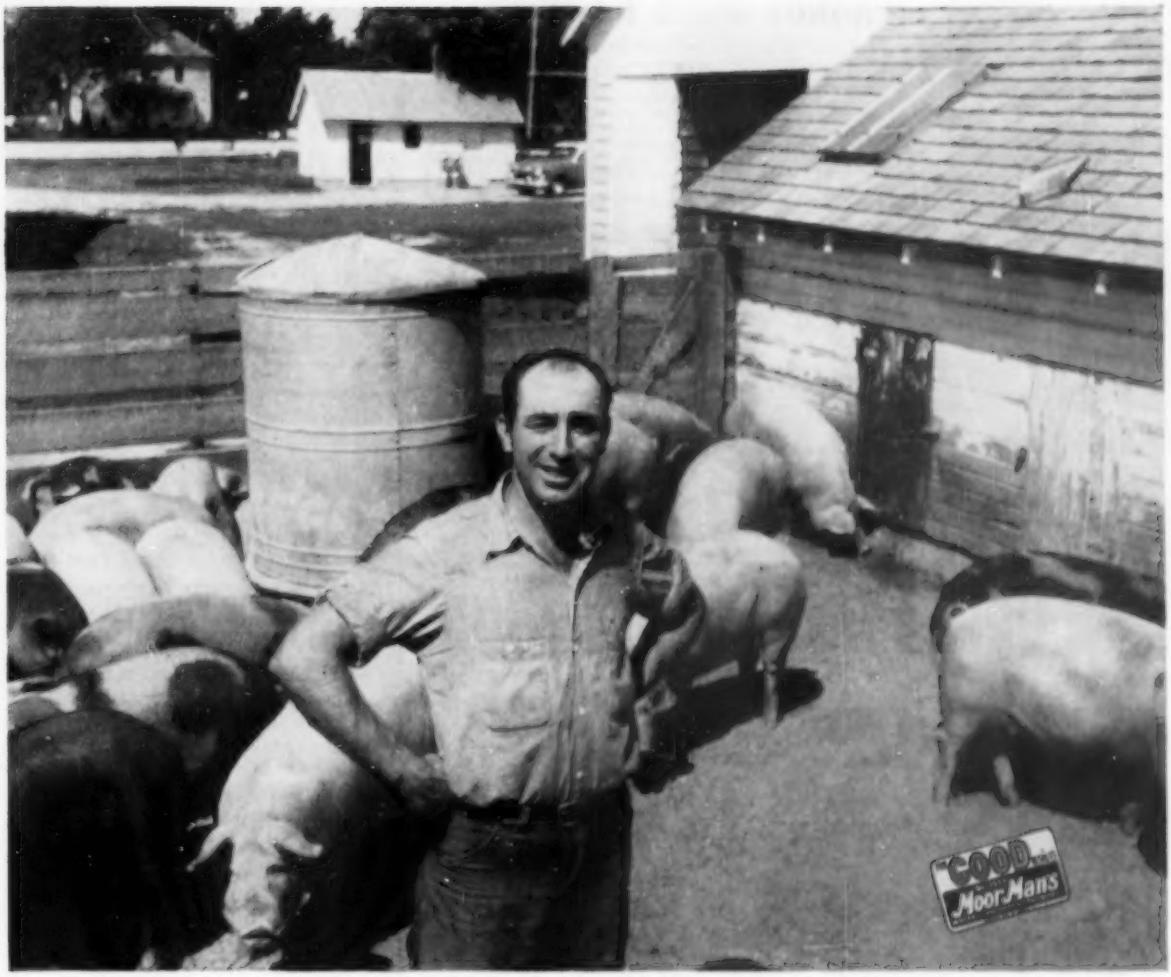
There is money in poultry and hogs on a large scale, the brothers believe, and say: "We have the perfect example for the smaller farmer. One of our feeder pig customers set up a standing order for feeder pigs twice a year when he first started buying; now he buys pigs every 8 weeks for more uniform marketing throughout the year, and last year, despite some pretty low prices when he averaged up his total marketings for the entire year, he found that he had made a pretty favorable profit."

This customer marketed a large shipment of hogs 86 days after buying the 41-pound pigs from the Hamre farm. They weighed 213 pounds.

"If we named the factors most responsible for our successful operations in hogs and poultry," say the Hamre brothers, "we'd say they were large operating units, careful management and record keeping, good feed conversion records, staying with a project, and reduced labor costs."

"Spunky"

"Your tractor's getting sluggish. Why don't you change cereals?"



"My cash outlay for feed only $5.36 a pig"

"I've just marketed 118 pigs that averaged 209 pounds at about a week over 5 months," says Amos Schaefer, Mitchell County, Iowa. "It took only 4⅓ bushels of corn to produce each hundred pounds of pork. My total feed cost for the lot came to only $2140.70. That's what I call real low-cost pork production.

"This is the second lot of pigs I've fed out on MoorMan's Mintrates . . . and my experience has convinced me that Mintrates help put on weight faster and at less cost than any feed I've ever used. Certainly they're a lot cheaper. Mintrates for this lot came to only $4.37 a hog—bean meal and alfalfa amounted to an additional 99c, giving me a total out-of-pocket cost of $5.36 a hog.

"I think one reason for this low cost gain is that MoorMan's Creep Concentrate and MoorMan's Pig Mintrate get the little pigs off to such a fast start and put on so much gain when they're young."

*MoorMan's Mintrates** are concentrated blends of minerals, proteins and vitamins, fortified with antibiotics and are scientifically combined to help hogs get greater nutritive value from corn and other home-grown feeds. Like Amos Schaefer, thousands of hog raisers have found that Mintrates are the key to rapid, low-cost pork production. Your MoorMan Man can show you just how it's done. If he doesn't call soon, write Moorman Mfg. Co., Dept. R612, Quincy, Ill., for details.

NOTE: Amos Schaefer's low cost of producing pork didn't happen overnight. It not only involves a careful comparison of feeding costs, but also thoughtful planning and plenty of attention to breeding, sanitation, good housing and good care.

MoorMan's*

Since 1885—71 Years of Friendly Service

Mintrate for Pigs and Hogs

Mineralized protein and vitamin concentrates that help hogs make more economical gains.

*Trademark Reg. U. S. Pat. Off.

This Teat DILATOR CANNOT Absorb Infection!

Holds milk duct in normal shape for correct healing. *No other* device does this like scientifically-shaped, smooth, *flexible* BAG BALM Teat DILATORS. Will not dissolve, come apart or snag tissues. Packed 25 in medicated BAG BALM ointment. Fluted Dilator carries ointment in. At your dealer's, where you get KOW-KARE, KALF-KARE, BAG BALM. Write for NEW FREE 24-page Cow Book, "Care and Feeding of Dairy Cattle":

DAIRY ASSOCIATION COMPANY
Lyndonville 66, Vermont

BAG BALM Teat DILATORS

FLEX-BEAM FORKS BY UNION

unbreakable where other forks break
The Union Fork & Hoe Co.
Columbus 15, Ohio

VON RUDEN **Hydra-Flex** 1-MAN, 2-MAN MODELS

HYDRAULIC CHAIN SAWS
Uses power you already have!

Smooth, light-weight unit has 12 H.P. cutting capacity. *Safely* trims, fells, bucks! Converts to post hole digger or universal power drive. Fits all tractors . . . . Thousands in use . . . . Money back guaranteed!

FREE write for color folder!

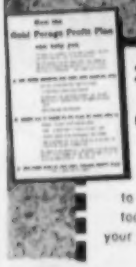
HYDRA-FLEX, Inc. • 24 Front St. • Claremont, Minn.

new Gehl Forage Profit Plan

shows how to save $600 by chopping

write for free plan that figures the dollar savings for your farm *

You can save $280 (figuring $1 per hour saved) putting up 200 tons of hay—by chopping. You can save an extra $330 if you field-chop 200 tons of corn for silage. Start now to save this time and money. Find out why chopping is cheaper. Gehl has developed a brand new Forage Profit Plan to help you figure how to make these savings on your own farm. And Gehl's "Chop-All" helps you save another way—it's lower in price than 8 other leading forage harvesters according to a recent survey. No wonder the finer cutting, easier running "Chop-All" is used by more farmers than any other independent make! Get a copy of the Gehl Forage Profit Plan—and plan now to save by chopping with a Gehl "Chop-All."



* This simple new Forage Profit Plan was prepared for you. It shows why chopping is cheaper . . . how to get started. Write today and we'll mail your copy immediately.

GEHL BROS. MFG. CO.,
Dept. MM-500, West Bend, Wisconsin

Please send my copy of "Gehl's Forage Profit Plan" . . . . . ☐
Send me a Gehl catalog and Grass Silage book ☐
Advise me where and how to see Gehl's Color Movie on "Modern Forage Handling" . . . . . ☐
Check if for school use ☐

Print Name_____ Acres Farmed_____
Address_____ State_____

Veterinary

Drouth feed caused abortions

A recent report described a large number of abortions that occurred in a flock of ewes. Blood tests and cultures were negative for brucellosis, leptospirosis, and vibriosis. A possible cause was indicated when the vitamin A blood levels were found to be far below normal while the blood levels of nitrite and nitrate compounds were considerably above normal.

The ewes had been wintered on "drouth" forages. This case serves as a reminder that a ration of poor roughages alone may prove pretty expensive for stockmen.

Bang's elimination aids human health

Figures from the state of Washington provide striking proof that the elimination of Bang's disease also improves human health in an area. Ten years ago there was an average of 50 cases of human brucellosis reported each year in the state, equivalent to an incidence rate of 2.6 per 100,000 population. In 1952 the rate was still 2.4. However, during 1955 only 6 cases were reported for a rate of 0.23, a 10-fold reduction.

Allergy caused drying-off trouble

The other day we saw a sick cow that was being dried off. The owner had skipped two or three milkings and the animal was shivering, frothing at the mouth, covered with welts, and had both eyes swollen almost shut. However, she returned to normal within a few minutes after being milked out.

This condition is known as urticaria, often called hives. It is sometimes caused by a type of allergy induced through milk left in the udder. Although the symptoms are frightening when seen for the first time, most of these cases clear up within a short time even when nothing is done for them.

Blackleg reported a swine killer, too

Swine usually are considered immune to blackleg, with the usual cause of blackleg-like lesions being a germ called Clostridium septicus. However, a recent English report tells how several hogs died of true blackleg, and another report from Italy describes the death of 34 pigs from this disease.

Owners in this country are being advised to watch for blackleg symptoms in swine that have been in contact with cattle afflicted with this disease.

Germ-killing furazolidone in

New disease-fighting booster feeds

kills off germs while it strengthens your birds

New, lifesaving furazolidone in high-level or booster feeds protects all types of poultry in a new, more effective way. It upsets disease germs' nutritional balance — throws the germs off feed until they starve to death. No resistant strains emerge to fight back. And the same low medication levels continue to prevent disease losses, year after year.

Boosts feed efficiency

This new, man-made germ killer frees your birds from the energy-robbing chore of fighting disease. It aids health and high production . . . helps birds get more from what they eat. As a result — you head off many laying slumps to keep production at a peak.

Safe for all poultry

There's never a trace of irritation . . . no unwanted "side effects" to slow down production . . . no harm to egg quality or hatchability. Furazolidone is completely safe for all poultry, livestock and pets. No danger even if accidentally overfed at twice the treatment level.

Feeds away flock troubles

Poultry experts say there are 30 or more *stress conditions* that give birds a bad time . . . and open the door to many secondary and non-specific infections. Here's where furazolidone really pays off with its germ-killing power.

Ever see a germ off feed?

Normal germs . . . get sick . . . and die.

Normal bacteria, when unhampered by drugs, grow in an orderly pattern. They thrive and multiply such as these common disease-causing organisms above.

When treated with the nitrofurans, germs get sick, go "off feed." Some die immediately. Others may become distorted, swell up and start to die.

But it's a losing battle, the end of the road for profit-robbing disease organisms. Unable to feed or multiply, germs starve to death and disintegrate.

Actual microscopic photographs before and after treatment with nitrofurans.

Look for lifesaving furazolidone on the tag

Furazolidone is effective in preventing and treating typhoid, paratyphoid, pullorum and synovitis. It also prevents most occurrences of CRD (air sac), blue comb (non-specific enteritis) and quail disease (ulcerative enteritis) in chickens. Furazolidone's disease-fighting power has been proved by years of university and Hess & Clark research . . . and by feeding to millions of birds.

one of those lifesaving

nitrofurans

germ-killers that last, from . . .

HESS & CLARK, Inc.

Ashland, Ohio

Amazing NEW
Sunflower ROTO-SAW

★ LOW PRICED!

QUICKLY ATTACHED TO 3-POINT HITCH

One Man Saws Down Trees at Ground Clears Land Quick and Easy Saws Up Logs and Branches

A sensational new and better power saw at a low price! Outstanding for fast, safe, dependable sawing. Adjustable to many angles. Easily attached to all 3-point Hitch Tractors. **A Great Work and Time Saver!** Fells trees fast! Zips up logs and branches. Sturdily built for lifetime service. Soon pays for itself. **ALSO** learn about amazing weed and brush cutter and low-priced post hole digger. **SEND FOR FREE FOLDER!**—Find out how easy and cheap it is to own a Sunflower ROTO-SAW. Send postcard now for **FREE** Folder and amazing LOW PRICE. Write today.

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FREE **10 POULTRY & FOOD BAGS** FREE

You pay others up to 25c each for Poultry & Food Bags but we'll send you 10 FREE to get your name on our mailing list! Pls. send 25c for postage & handling. Limit—two sets to family. Order NOW!

FREE BAGS, Dept. H-66, Box 881, St. Louis, Mo.

Gloxinia **2 BULBS 25¢**

Beautiful Pot Plants

Gorgeous, easy to grow house plants, 3" to 4" flowers, last for months. Exquisite mixed colors. Send only 25c for 2; 50c for 4; $1 for 8. Order now. Postpaid with big Seed and Nursery Book

R. H. SHUMWAY SEEDSMAN
DEPT. 226 ROCKFORD, ILLINOIS

Tips for the cook®

Ideas that add sparkle to your meals and make food preparation easier

● Here's a timesaver for busy holiday mornings when you plan to serve freshly baked muffins for breakfast. Combine dry ingredients the night before. In the morning it takes only a few minutes to add the liquids and stir up the batter.—*Mrs. H. Beamer, Washington.*

● For those who prefer bacon crisp, try this method: Dip the bacon strips in corn meal and fry or broil as usual.—*Mrs. Jess Dowlin, Missouri.*

● For a quick-as-a-wink, easy way to frost Christmas cookies use a pastry brush

instead of a knife.—*Mrs. Sylvester Meehl, Wisconsin.*

● To grind cranberries easily with no spattering juice, freeze them first, then put through the grinder while still frozen. If used in a gelatin salad, the frozen ground cranberries help set the gelatin quickly.—*Mrs. Virgil L. Gieck, Colorado.*

● Teen-agers at your house will love a sundae tray. Fill small clear-glass apothecary jars with ice-cream toppings. One jar can hold crushed peppermint candy,

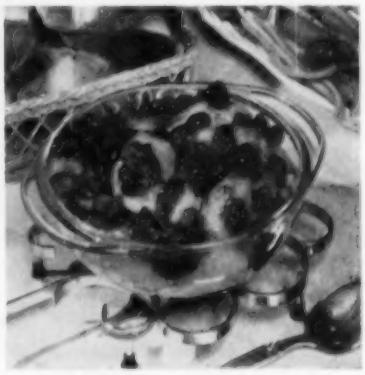
Photographs: Stanley

another tidbits of semisweet chocolate, another shredded coconut, and one maraschino cherries. Arrange on tray; pass with ice cream.—*Mrs. James Russell, Colorado.*

● When cracking hard-shelled nuts, such as black walnuts, spread the nutmeats on white paper and examine with a magnifying glass. You can easily pick out the small bits of shells that are often overlooked, yet annoying to find in eating cookies, candy, or anything in which nuts are used.—*Mrs. Margaret McFarlan, Ohio.*

● Popcorn dries out rapidly in the relatively warm air of our modern homes. Dried-out kernels don't pop well and result in tough corn. To keep kernels fresh, seal in a jar, can, or plastic bag and store in cool place or in the freezer. If corn is already dried out, raise the moisture content by moistening a cloth or blotter in salt water and putting it into a tight container with corn. Let stand 24 hours. Test-pop a few kernels. If still too dry, repeat the moistening.

● Sweet potatoes combine with cranberries to make a tasty and colorful casserole. Place 3 cups cooked small whole sweet potatoes in buttered 1-quart baking dish.



Top with whole cranberry sauce and dot with butter. Cover and bake in moderate oven (350°) 30 minutes or till heated through.—*Mrs. H. E. Chrisman, Nebraska.*

● You'll find this a good way to use leftover pastry when baking pies. Make a treat for the children by cutting inch-wide strips of pastry with a cutter and wrapping around pitted dates or softened pitted prunes. Brush with milk; sprinkle with sugar. Brown in a hot oven (450°). —*Mrs. Ernest Miller, Michigan.*

● Try this zippy cracker spread that is made with sardines. Combine one 3-ounce package of cream cheese, one 3¾-ounce can flaked sardines, 1 tablespoon minced onion, and 1 tablespoon prepared mustard. Add enough mayonnaise to make the mixture easy to spread. Season to taste with salt and pepper. Spread on crackers to serve.—*Mrs. Grant Hardy, Utah.*

If this isn't the most luscious fudge you've ever made—**WE'LL EAT IT!**

NESTLÉ'S MARSHMALLOW CREAM FUDGE*

BRING to *full boil*—stir constantly: one 5 to 10 oz. jar marshmallow cream; ⅔ c. evaporated milk (Nestlé's preferred); ¼ c. butter; 1½ c. sugar; ¼ tsp. salt.

BOIL 5 min. over moderate heat, stirring constantly.

REMOVE from heat. STIR IN till melted: 12 oz (2 c.) Nestlé's® Semi-Sweet Chocolate Morsels; 1 tsp. vanilla; ½ c. nuts, chopped (optional).

POUR in greased pan 8" x 8" x 2".

CHILL well. YIELD: approx. 2¼ lbs.

*P.S. It's so easy!

For Toll House® Cookies and all the things you love in chocolate!

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When Winter stresses cause production

moist, appetizing WHEY is the answer

Peebles' Whey Blocks bring layers back to peak condition when cold weather changes cause nervous upsets in the laying house.

Wintery drafts and sudden shifts in temperature invite production troubles. Listless birds begin to sag as feed and water intake falls off. Then egg production suffers . . . unless . . . you snap layers back into shape with Peebles' Whey-Vitamin Blocks.

The milk by-products of Peebles' Whey Blocks pep up slack appetites. Moist and appetizing whey builds desire for regular feeds . . . tones up systems . . . helps stop nervousness and picking. Peebles' costs so little for the benefits it gives . . . better feed efficiency, steadier laying longer, and fewer off-feed days.

So remember, when trouble strikes, use *nature's way* to get your flock back to peak condition. Get Peebles' today from your feed dealer. Write for FREE folder B-12. WESTERN CONDENSING COMPANY, Appleton, Wisconsin and San Francisco, California.

CONTAINS Vigofac

Try Peebles' today — see the difference it makes

Peebles'
WHEY BLOCKS

World's Largest Producer of Whey Products

Bonuses from your arc welder

By Dave Klamfoth

Heating. Adjust carbons in arc torch so tips meet evenly, not more than 3" protruding from holders. Proper gap is 1/16", carbons ½-¾" from metal. Carbon life is 2-3 hours

Piercing. Hold long arc for an instant to preheat metal. Then push tip of rod into metal slowly. Make circle with tip to enlarge hole. To finish smooth hole, push rod through

Brazing. Braze metals too thin to be welded easily. Sheet-metal guards are examples. Work with 40-60 amperes, 5/16" carbons. Use flux-coated brazing rod, fed by hand

Soldering. A 30-ampere setting is about right. Carbons are "shorted," making tips glow, and are used to heat the metal. No eye shield needed. Regular rod can be used, also, with the other wire attached to work

Photographs: O'Brien

Hard surfacing. Adjust carbons as you would in heating metal. To hard-surface, deposit hard-surfacing powder along cutting edge. Direct flame away from cutting edge

Cutting. Usual farm welder of 180-ampere size cuts metal thicknesses found on most farms. Use ⅛" rod, usually, and move it as if digging out groove with each pass. Arc preheats metal on top, cleans out metal

The 2-3-plow John Deere "420" Tricycle with 4-Row Quik-Tatch Cultivator working in soy beans.

LOOK TWICE at a JOHN DEERE 420

1. See Its Big Work Capacity. **Handles 3-bottom plows, big-capacity PTO machines, under most conditions. Matches the work output of much larger tractors in planting, cultivating, haying, etc.**

2. See How It Saves You Money. **The first cost is low. Fuel and maintenance economy is exceptional. And the "420" is available with a full line of low-cost, time- and labor-saving tools.**

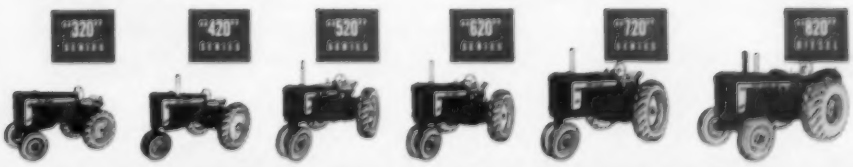
The "420" Tricycle furnishes complete power for row-crop farms even up to 160 acres in size. Does *all* the work, the year around. It's a mighty wise investment for young farmers. The low-built "420" Row-Crop Utility is ideal as a second tractor on larger farms.

Each of these models offers you every modern feature for your convenience and comfort, including "live" Dual Touch-o-matic with 3-point hitch for precision control of working tools . . . delayed lift or selective lift for cultivating . . . rapid, easy change of tools . . . Load-and-Depth Control for more uniform tillage in changing ground conditions. Optional equipment includes a 5-speed transmission with an extra speed of 6¼ mph, ideal for rotary hoeing, mowing, etc. . . . a new continuous-running PTO . . . and power-adjusted rear wheels.

So, we say, "LOOK TWICE at a John Deere 420." Ask your dealer about the credit plan that makes it easy for you to pay for this modern, high-quality tractor while it's earning big profits for you."

Here is the handy, low-built "420" Row-Crop Utility pulling a 3-bottom plow. This tractor handles 2- or 4-row cultivating equipment. It is the ideal second tractor for larger farms.

6 Power Sizes · 30 Basic Models



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☐ "420" TRICYCLE
☐ "420" ROW-CROP UTILITY

Name _____ ☐ Student

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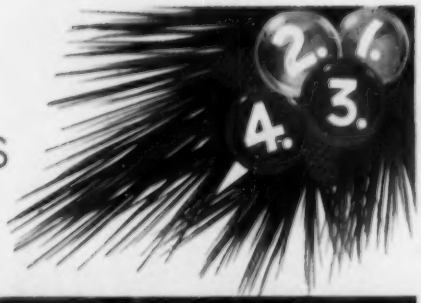
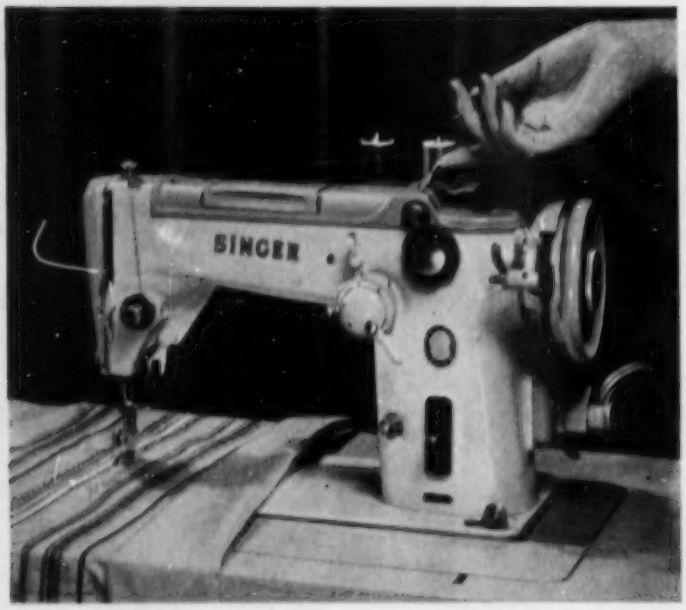
Most gifted machines in the world!

The 4 newest **SINGER** Machines



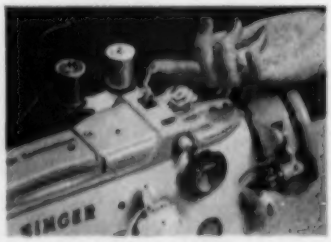


1. New Swing-Needle **SINGER** Automatic with Finger-Tip Control

With this amazing new SINGER Automatic you can do more kinds of decorative stitching—*more simply*—than with any other machine.

That's because it has a special Finger-Tip Control that lets you pick out the stitch you want—*and start doing it*—at the flick of a lever. Puts literally hundreds of fashion touches at your finger tips!

It even makes straight stitching smoother, surer than any other automatic. Has twin-needle for two-color sewing . . . every de luxe feature! In new "designer" cabinets or full-size portable case. A machine that will give any woman a new "gift" for sewing.



Does hundreds of stitches at the flick of a lever! Want to switch from straight stitching to scallops—zigzags—embroidery—monograms—darning—overcasting? Simply flick one or more of these little levers . . . and you're off!

You can do all the popular stitches or create your own combinations—*by the hundreds*—with this amazingly simple SINGER Automatic!

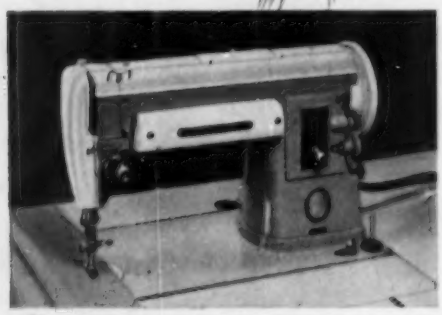
YOU JUST CAN'T BEAT A SINGER!

SINGER* Sewing Machines start at $99.90. Easy terms—liberal trade-in allowance.

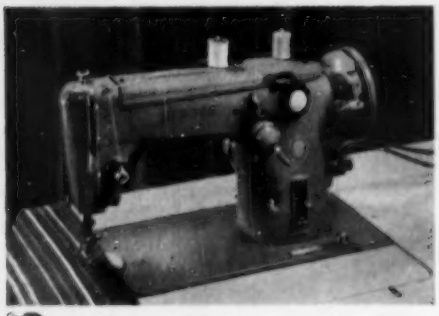
SINGER SEWING CENTERS

See phone book under SINGER SEWING MACHINE CO. for address nearest you.

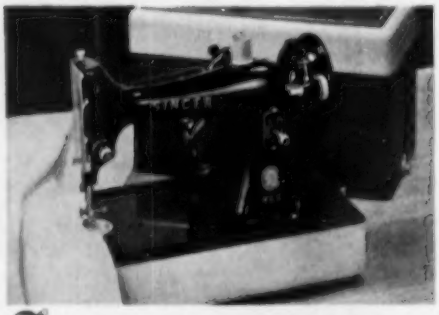
*A Trademark of THE SINGER MANUFACTURING COMPANY.



2. Exclusive Slant-Needle* SINGER. *Only* machine with a needle that slants toward you. Lets you see more clearly, feed fabric more easily. Now in oyster-white and beige, beige, or black. Comes with Automatic Zigzagger attachment for decorative stitching.



3. Economy SINGER Automatic. Gives you zigzag Swing-Needle* sewing at an "easy" price. Does all kinds of fancy stitches—hems, darns—*automatically*. In cabinets or portable case. Built, like every SINGER, to stitch beautifully—through a *lifetime* of Christmases.



4. New extra-value SINGER Portable. An unbeatable buy! This round-bobbin beauty sews forward and back. Has built-in light, simplified threading, handsome case. One of many fine straight-needle models. There's a new SINGER to please every taste, every purse.

Let your front door say

Merry Christmas!

On page 42 you saw ideas for Christmas parties complete with invitations, centerpieces, and Christmas cards. Why not make your party more complete by tying the theme on your front door? These decorations are simple to make, effective, and colorful.

If Mrs. Santa is the hostess indoors, let Mr. Santa greet your guests at the door. A whimsical snowman made from chicken wire, or a coat-hanger Christmas tree will give your guests a clue that a warm welcome is waiting on the other side of the door.

Make snowman of chicken wire sprayed white, or flocked with snow spray. Tie scarf around his neck, and use felt cutouts for buttons and face. Add pipe, broom, and weight snowman down with brick. For door, use evergreen and styrofoam mittens and balls

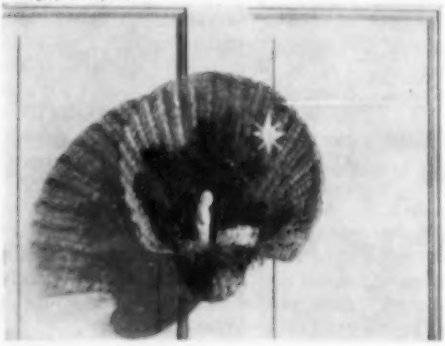
Mr. Santa Claus can be made of felt, oilcloth, or waterproofed paper. Cut two pieces 18" long and shape the outline of the body, head, and feet. Sew around the edges leaving the top open and tuck greens in.

Decorate front with black and red material to look like belt, boots, whiskers, and trim on suit. Make a loop in back and hang.

The whole family welcomes your holiday guests with this front door decoration. Use coat hangers wired together for a base.

Twine evergreen around limbs and secure with fine wire or thread. Cut out ornaments in felt or oilcloth and put each member of the family's name on one and attach to a limb. Tie with red bow and attach to front door.

Photographs: Hopkins



← Here's a simple, effective way to make a creche to go on your door. Carrying out nativity theme of your Christmas cards and centerpiece, use seashell-shaped basket, tuck in greens, then wire in miniature Baby Jesus and Mother Mary.

A bright star of yellow and white felt completes nativity scene.

INCREASE FARM PROFITS!

KILLS CORN BORERS by pulverizing, mulching and firming soil on cornstalks that have been plowed under — corn borers are smothered in ground. Saves time, labor, horsepower, preparing ideal seedbed. Leaves surface mulch without grooves to help prevent washing. Seedbed conserves moisture — more seeds grow. Helps increase yields of all crops. SEEDBED MAKER has 5 in 1 Combination spring tooth harrow, sprocket packer and mulcher with seeder available. Once over your plowed field with this machine does the ideal job. Write today.

TRAILER MOUNTED FOR POWER TAKE-OFF. Has traveling feed table. Especially designed for grinding or chopping larger quantities of loose or baled hay and any roughage. Comes with or without Trailer Mount and P.T.O. Both cutter knives and heavy swing hammers. Grinds any feed, wet or dry, snapped or ear corn, roughage bundles or baled flakes with farm tractor. Write for details.

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Hastings, Nebraska - Manufacturers

POWER FOR LIGHTS OR WELDING
PORTABLE GAS DRIVE—USE ANYWHERE

Have power anywhere, any time for emergency lighting, essential tools, motors, pumps, etc. This 2-in-1 unit also lets you weld independently of power lines. Write for FREE detailed information

Low in Cost

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WOLVERINE
PIGSKIN WORK GLOVES

Only Wolverine uses choicest domestic pigskin triple-tanned kid-soft to give you comfort unequalled in any other work gloves. Soft? You bet...even dry out soft but man how they do wear.

WEAR A PAIR 7 DAYS
...your money back in full if you don't agree they're the best work gloves you ever wore.

Write for free catalog and name of dealer, to
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Profitable Practice
keep
PILOT BRAND
OYSTER SHELL
before your flock
at all times

Pilot Brand Oyster Shell is a perfect egg-shell material. Helps you get maximum production of stronger-shelled eggs. And it costs only a nickel a year per hen.

In the bag with the big blue Pilot Wheel—at most good feed dealers

PILOT OYSTER SHELL FOR POULTRY

Oyster Shell Products Corporation
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How to Build Fence 35-mm filmstrip, printed commentary—$3.50. Write to *Successful Farming*, Des Moines 3, Iowa.

Would You Spend 2¢ per cow per day

for BIGGER Milk Checks ...Better Calves?

Modern KOW-KARE contains 4,000 units powerful Vitamin A per ounce, Vitamins D, E, minerals, tonic drugs. Definitely promotes better feed-to-milk conversion. Offsets sluggish cows. Builds against freshening strains. Aids growth, helps assure breeding and stronger calves. Used by successful dairymen. Costs only 2¢ per cow per day. 3 sizes, all stores. (AND to avoid calves' scours get proven KALF-KARE).

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LOOK for new Red & Black Label At your Dealers'

FREE Cow Book

Write for NEW 24-page helpful Booklet "Care and Feeding of Dairy Cattle".

DAIRY ASSOCIATION COMPANY
Lyndonville 44, Vt.

SAVE 33%...Buy 50 lb. Drum

Tips for dairymen

Grass silage safe and economical for calves

Many dairymen are suspicious of any kind of silage as roughage for young dairy calves. Recent experiments at Pennsylvania Experiment Station indicate that grass silage is both safe and economical in the calf ration.

In these studies, 48 Holstein calves of both sexes were given free access to either alfalfa hay, alfalfa silage, or both hay and silage. One group on each roughage also received 5 pounds of calf starter daily. Another group on each roughage had calf starter reduced to 2 pounds per day.

The feeding experiment started when the calves were 6 days old and continued for 15 weeks.

All calves got whole milk for the first 6 weeks (at 9 percent of the starting weight of each calf). The results follow:

1. Alfalfa silage did not cause any digestive disturbance when fed either alone or in combination with alfalfa hay.

2. Alfalfa silage plus alfalfa hay produced the same daily gains as hay alone —when fed with 5 pounds of calf starter —and better daily gains when fed with only 2 pounds of calf starter. Daily gains from straight alfalfa silage were slightly lower in all cases.

"Pressure-rack" feeder saves feed and labor

Hay feeders with "floating racks" (see picture below) have found a permanent place on the Alfred Schultz farm, Broome County, New York.

Chains are used to fasten the "floating rack" to each end of the feeder. To fill, the "floating rack" is simply hooked to the top of the hay feeder. From 8 to 10 bales are placed in each feeder. After the bale ties are removed, the "floating rack" is lowered into position. The free-floating rack rests on the bales.

Photograph: J. E. Lawrence

Poultry pointers

Two drugs control cecal coccidiosis

A new combination treatment, using the antibiotic aureomycin with sulfamethazine, has proved 100-percent effective in preventing mortality of chicks infected with cecal coccidiosis under experimental conditions, according to the United States Department of Agriculture. Affected chicks treated with these two drugs made faster gains than healthy ones fed the same ration without the treatment, U.S.D.A. experiments showed.

Sulfamethazine is known to act on certain stages in the life of coccidial organisms. Antibiotics, on the other hand, apparently act to stimulate growth, so that stock and poultry so fed may thrive in spite of the presence of certain organisms.

Controls hemorrhages due to Vitamin K deficiency

Hemorrhagic disease due to vitamin K deficiency can be controlled by early treatment with menadione sodium bisulfite in a water-soluble capsule form.

In tests, feed consumption rose as much as 25 percent in 48 hours in flocks where drinking water was treated with stabilized menadione sodium bisulfite. In many cases of hemorrhage in combs of young pullets, birds treated with this water-soluble vitamin K form did not come down with the chronic respiratory disease symptoms which seem to follow 10 days to 2 weeks later in untreated flocks.

The capsules can be emptied directly into the water.

Synthetic amino acids "balance" protein in ration

Synthetic amino acids may be finding a place in poultry rations. At least one—methionine—has already proved its value in adding essential protein.

H. R. Bird, poultry specialist at the University of Wisconsin, points out that chicks require some 13 amino acids (protein building blocks) for good growth. At least some of these are also required for egg production.

No single feed ingredient supplies all these essential amino acids in just the right balance. The easy way to reach amino acid balance is to add individually those needed. This is where synthetic products come into the picture.

Only Armco ALUMINIZED STEEL gives your farm buildings all these advantages

1. Lasts at least 3 times as long as standard galvanized. Seventeen years of testing in a mild industrial atmosphere show that the aluminum coating on Armco ALUMINIZED STEEL® Type 2 lasts at least three times as long as the zinc coating on commercial galvanized steel.

2. Protects against fire. ALUMINIZED STEEL is 10 times stronger than aluminum at 800 F. In case of fire, this extra protection could save valuable buildings and their contents.

3. Reflects heat. This special Armco Steel reflects up to 80% of the radiant heat thrown against it. Production from livestock is increased because buildings are cooler in summer.

4. Strong as only steel can be. New ALUMINIZED STEEL is stronger and tougher than aluminum of equal thickness. Because of this great strength, your buildings resist damage from wind, hail and impact from farm animals and equipment. ALUMINIZED STEEL buildings stay tight and rigid; give longer service life.

5. Saves money. ALUMINIZED STEEL costs less per square foot than aluminum. And this special Armco Steel is lower in cost than commercial galvanized steel plus one field coat of paint. ALUMINIZED STEEL needs no paint.

If you are considering new buildings for your farm, it will pay you to get all the facts about this new metal that combines the advantages of aluminum and steel. Why not write for more information today—including the names of companies that make ALUMINIZED STEEL buildings? No obligation, of course.

ARMCO STEEL CORPORATION

MIDDLETOWN, OHIO

SHEFFIELD STEEL DIVISION · ARMCO DRAINAGE & METAL PRODUCTS, INC. · THE ARMCO INTERNATIONAL CORPORATION

Syracuse woman wins honors in first cooking competition

Governor Harriman Congratulates Top Cook

New York's Governor Harriman not only attended the State Fair last year, but while there he presented three cooking awards to Mrs. Herbert Borst, a top prize winner.

Mrs. Borst certainly did well in her first year of competition. However, Mrs. Borst thinks Fleischmann's Active Dry Yeast is partly responsible for her cooking success. "It's so dependable," she says. "Gives me grand results and keeps for months."

Holiday time is here, so if you bake at home you'll be serving your family yeast-raised specialties. And you'll find them easier to make with Fleischmann's Active Dry Yeast handy in your cupboard . . . It stays fresh for months. And serve Fleischmann's new "Yeast-Riz" Main Dishes, too—there's a recipe on every "Thrifty Three." Fleischmann's is always fast rising — *easy* to use. Get Fleischmann's Active Dry Yeast — prize-winning cooks depend on it.

Get the New "Thrifty Three"

Another Fine Product of Standard Brands Inc.

You Can Depend On

STRONGER Yet SAFER

ANACIN

to relieve

PAIN

Won't Upset The Stomach

Anacin® not only gives *stronger, faster* relief from pain of headache, neuritis and neuralgia—but is also *safer*. Won't upset the stomach and has no bad effects. You see, Anacin is like a doctor's prescription. That is, Anacin contains not just one but a *combination* of medically proven, active ingredients. Scientific research has proved *no single drug* can give such strong yet such safe relief as Anacin. *Buy Anacin Tablets today!*

Works in seconds!

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nuts . . . screws . . . parts

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AT HARDWARE STORES, GARAGES, FILLING STATIONS EVERYWHERE

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"KING OF THE EARLIES" Big solid, scarlet fruit, disease resistant, heavy yielder. Ideal for table or canning. Send postal today for 125 seed and copy of Seed and Nursery Catalog. **125 SEED FREE**

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THOSE POOR FINGERNAILS

How to restore splitting, breaking nails

New medical research brings help. Seven out of ten women restored cracking, splitting nails to normal by drinking KNOX GELATINE in water, fruit juice or bouillon. Send for FREE BULLETIN—Address Knox Gelatine, Box SF-8, Johnstown, N. Y.

KNOX DRINK FORMULA IN EVERY PACKAGE

Jingle-bell treats

From page 43

Golden Almond Steamed Pudding

(Makes 8 to 10 servings)

½ cup shortening
¾ cup sugar
1 cup brown sugar
2 eggs
2 cups sifted flour
1½ teaspoons baking powder
1½ teaspoons salt
¼ teaspoon soda
¾ teaspoon ginger
½ teaspoon nutmeg
1 teaspoon cinnamon
¾ cup canned pumpkin
¼ cup sour cream
1 cup chopped almonds, toasted

Cream shortening with sugars till light; add eggs and beat well. Sift dry ingredients together; add alternately with pumpkin and sour cream to creamed mixture. Add toasted almonds; mix well. Arrange rows of almonds and daisy designs made from almonds in well-greased 2-quart mold. Pour in pudding batter and cover tightly with lid, foil, or several sheets of brown or waxed paper tied securely. Place mold on rack in pan; fill pan 1-inch deep with water; cover. Let pudding steam over boiling water for 2 hours. Let pudding stand about 5 minutes; then remove from mold and add candied cherry centers to daisy designs. Serve with hard sauce. (To reheat, place in mold over boiling water till warm before serving.)

Frosty Milk Sherbet (Makes 1 quart)

4 egg whites
1 cup sugar
2 cups milk
1 cup lemon juice
½ cup light corn syrup
2 teaspoons grated lemon peel

Beat egg whites to form soft peaks. Add sugar gradually, beating to form stiff peaks. Add remaining ingredients gradually, mixing well. Pour into refrigerator trays and freeze. Place in bowl; beat till smooth. Return to trays; freeze till firm.

Christmas Ribbon Dessert Salad

(Makes 10 to 12 servings)

4 cups cranberries
2 cups water
2 cups sugar
1½ envelopes (1½ tablespoons) unflavored gelatin
¾ cup water
1 apple, ground
1 orange, ground
1 12-ounce carton (1½ cups) sieved cottage cheese
¾ cup mayonnaise
½ cup chopped walnuts
½ envelope (½ tablespoon) unflavored gelatin
2 tablespoons water

Cook cranberries in 2 cups water till skins pop. Strain. Add sugar to cranberry pulp; simmer 15 minutes. Soften 1½ tablespoons gelatin in ¼ cup water and dissolve in hot cranberry mixture. Cool

Help Fight TB

Buy Christmas Seals

slightly and add apple and orange. Pour 2 cups of this mixture into a 10-inch ring mold and chill till just firm. Combine cottage cheese, mayonnaise, and nuts. Soften the ½ tablespoon gelatin in 2 tablespoons of water and dissolve over hot water; stir into cottage cheese mixture. Place atop cranberry layer and chill till firm; top with remaining cranberry mixture and chill till firm.

Brazil Nut Steamed Pudding
(Makes 12 servings)

- ½ cup orange juice
- 1½ cups raisins
- ¼ cup diced citron
- 1 apple, pared and chopped
- 1 tablespoon grated orange peel
- 2 slightly beaten eggs
- ½ cup light molasses
- ½ cup chopped Brazil nuts
- 1 cup ground suet
- ¾ cup dry bread crumbs
- ½ cup sifted flour
- 1 teaspoon baking powder
- ½ teaspoon soda
- ¼ cup sugar
- ½ teaspoon salt
- ½ teaspoon cinnamon
- ¼ teaspoon allspice
- ¼ teaspoon ground cloves

Pour orange juice over raisins, citron, apple and orange peel, let stand 1 hour. Combine eggs, molasses, nuts, suet, and crumbs with fruit mixture. Sift remaining dry ingredients together; add to fruit mixture and mix well. Pour into a *well*-greased 1½-quart pudding mold. Cover with a tight-fitting cover or several layers of aluminum foil tied securely in place. Place on rack in a deep pan and pour in boiling water to half the depth of the mold. Cover pan and steam 4 hours, adding boiling water if needed. Let stand 10 minutes before unmolding. Serve warm with hard sauce or softened ice cream.

Testament

There was a great and molten star
which burned
Above my barn all night that
Christmas Eve,
When into my heart the Son of Man
returned
And wooed me till I whispered,
"I believe."
I doubt no more. The world and I
are friends.
Henceforth, I'll love my neighbor,
and will go
That long, steep journey till my
faring ends,
Doing what good I can; I'll keep
the glow
Of love within my heart; I'll live,
let live,
And turn my eyes forever toward
the Light.
Whatever good's in me I'll freely
give. . . .
There was a star above my barn
that night,
And I fed my stock next morning,
seeing plain
In the hay-sweet manger a place
where a Child had lain.

—**E. V. Griffith**

Creamy "can't-fail" fudge in 5 minutes

Secret of its luscious flavor . . . BAKER'S CHOCOLATE CHIPS

So blissfully easy, so sure! No soft ball tests, no candy thermometer. Just lots of heavenly chocolate flavor from Baker's Chocolate Chips. They're always extra-rich 'n chocolaty!

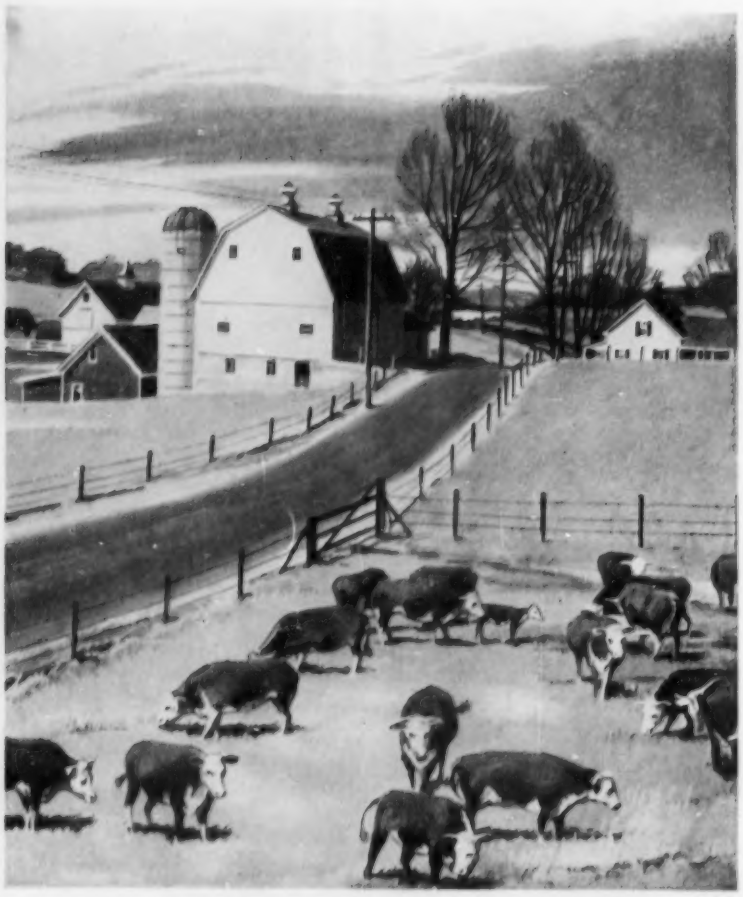
5-MINUTE FUDGE

Mix . . . ⅔ cup of undiluted **Carnation Evaporated Milk** with 1⅔ cups of sugar and ½ teaspoon salt, in a saucepan. Cook and stir over medium heat until mixture comes to a boil. Then boil 5 minutes, stirring constantly. Remove from heat.

Add . . . 1½ cups (16 medium) diced marshmallows, ½ cup chopped nuts, 1½ cups **Baker's Chocolate Chips,** 1 teaspoon vanilla.

Stir . . . until marshmallows melt (about 1-2 minutes). Pour into buttered 8-inch square pan. Cool.

Product of General Foods



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Agriculture as it is known in America, with its specialized production of high-quality crops and its highly organized system of marketing, dates from the time when railroads made it possible to reach the nationwide markets upon which that kind of agriculture depends.

And today, modern railroads are *basic* in modern agriculture – basic in the gigantic job of moving your crops to market – basic in bringing you the variety and abundance of supplies and equipment which enable you to produce more and live better.

That's why it is important to you – and to all America – that our public policies should give equal treatment and opportunity to all forms of transportation. Then each form can do for you the things which it can do best, and your modern railroads will be able to serve you even better and more economically!

Association of American Railroads
Transportation Building, Washington 6, D. C.

Laughing at Life

A Dim Outlook

Abe: "Did you hear about the blind carpenter regaining his sight?"
Ike: "No, tell me about it."
Abe: "He picked up a hammer and saw."

Guess Who's the Victim

The president's job
Allows no relaxing;
But a Congressman's job
Is even more taxing.
—Hal Chadwick

Truthful Approach

Boy: "I'd like to work for you after school hours."
Merchant: "Sorry, lad, but I don't need much help right now."
Boy: "All the more reason to hire me. You'd soon find I'm not much help."

High on the Hog

Mrs. Classon Blaisdell accompanied the fashion sow with appropriate music.—The Burlington (Vermont) Free Press.

Checking His Alibi

Judge: "Have you anything to say for yourself about this forgery charge?"
Defendant: "Your Honor, I couldn't be guilty of forgery. I can't even write my own name."
Judge: "That's no excuse. You aren't accused of writing your own name."

No More Falling Out

If one of those atomic blasts in Nevada gets out of hand, America will have no grounds for divorce.—Jack Herbert.

Permanent Fixture

There's nothing I've found
In life's endless quest,
That will last quite as long
As a suit I detest.
—Stephen Schlitzer

"We haven't that much laborsaving machinery."

You get bigger yields with LION in your fields

LION BRAND AMMONIUM NITRATE CONTAINS TWO KINDS OF PLANT NITROGEN

FOR MORE PRODUCTION, Lion Ammonium Nitrate contains TWO kinds of plant nitrogen. *Quick-acting* nitrate nitrogen that gets crops started fast . . . and *long-lasting* ammonium nitrogen that resists leaching and feeds your crops steadily during the important growing months that follow.

FOR LOW-COST NITROGEN, LION is the brand. Lion Ammonium Nitrate is guaranteed to contain 33.5% nitrogen, which means lower-cost nitrogen for your crops . . . more for your money in bigger crop yields.

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MADE BY WORLD'S LARGEST. Lion Brand Ammonium Nitrate is made by Monsanto Chemical Company, world's largest producer of prilled ammonium nitrate—and *your* most reliable source of *low-cost* nitrogen. Save money. Buy *Lion!*

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MONSANTO CHEMICAL COMPANY • ST. LOUIS 1, MISSOURI

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KILL GRUB
Wolves Warbles
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Lice, Ticks, and Flies

"LOW COST" AUTOMATIC
OMAHA
CATTLE OILERS

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With Automatic Oil Feed From 5 Gal. Tank

The low-cost way to control stock pests. Insecticides are rubbed deep into the hair and hide automatically as the cattle treat themselves. All steel rubbing element will withstand hard use for a lifetime. Easy to install, attaches to any post. The 5 gal. tank holds enough oil to last for weeks.

Recommended INSECTICIDE CONCENTRATE

"HESSKILL ROTOLEX"

Mixes 1 to 20 with #2 fuel oil or petroleum distillate for use in cattle oilers. Mixes 1 to 160 with water to spray for Grubs, Lice, Ticks, and Sarcoptic Mange Mites . . . only $10.00

COMBINATION OFFER

Order 1 Gal. of Rotolex with each Omaha Cattle Oiler ordered. Send check with order, and get both for only $34.50, parcel post prepaid. C.O.D. plus postage, if you prefer. Write . . .

BOTH For Only $34.50 POST PAID

OMAHA Equip. Co., Box 594, Omaha, Nebr.

$ GROW HERBS FOR US!

AT HOME— IN YOUR SPARE TIME

FREE SEEDS Write!

Dept. SF-12, Gardena, California

Statement of the Ownership, Management, and Circulation required by the Act of Congress of August 24, 1912, as amended by the Acts of March 3, 1933, and July 2, 1946 (Title 39, United States Code, Section 233) of *Successful Farming*, published monthly at Des Moines 3, Iowa for October 1, 1956.

1. The names and addresses of the publisher, editor, managing editor, and business managers are:
Publisher: Meredith Publishing Company, Des Moines 3, Iowa.
Editor: Kirk Fox, Des Moines 3, Iowa.
Managing editor: Earl K. Larson, Des Moines 3, Iowa.
Fred Bohen, President, Des Moines 3, Iowa.

2. The owner is: (If owned by a corporation, its name and address must be stated and also immediately thereunder the names and addresses of stockholders owning or holding 1 percent or more of total amount of stock. If not owned by a corporation, the names and addresses of the individual owners must be given. If owned by a partnership or other unincorporated firm, its name and address, as well as that of each individual member, must be given.)
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5. The average number of copies of each issue of this publication sold or distributed, through the mails or otherwise, to paid subscribers during the 12 months preceding the date shown above was: (This information is required from daily, weekly, semiweekly, and triweekly newspapers only.)

E. T. Meredith
Vice President & General Manager

Sworn to and subscribed before me this 1st day of October, 1956.

Irene A. Anderson
Notary Public in and for Polk County, Iowa.
(My commission expires July 4, 1957.)

Photograph: Stanley

Rich-flavored meat balls made with turkey are a tasty addition to any meal. Serve atop a platter of hot fluffy rice. Great to make ahead and use later.

Tempting turkey

Delicious ways to use leftover turkey. With these tasty recipes you'll find Mr. Turkey's second appearance at your table will be just as good or better than his first one

Tip-top Turkey Meat Balls
(Makes 4 to 6 servings)

- ¼ cup minced onion
- 2 tablespoons finely chopped green pepper
- 2 tablespoons butter
- 1 cup toasted bread crumbs
- ½ cup milk, scalded
- 1 cup cooked turkey diced
- 1 beaten egg
- ½ cup melted butter
- 1 tablespoon Worcestershire sauce

Cook onion and green pepper in butter till golden, but not brown. Stir in the crumbs, milk, turkey, and egg. Mix thoroughly and shape into about 40 tiny balls. Roll in flour till coated and fry lightly in fat just until golden. Place turkey balls in top of double boiler and pour over a mixture of the melted butter and Worcestershire sauce. Cover and steam 10 to 15 minutes over boiling water. Serve over hot cooked rice.

Turkey 'n 'Taters (Makes 4 servings)

- 4 medium cooked potatoes
- 2 cups cooked diced turkey
- 1 can condensed mushroom soup
- 2 teaspoons paprika
- ¼ teaspoon thyme
- Dash pepper
- 1 cup shredded sharp process cheese

Slice potatoes thinly and place about half in a 10x6x1½-inch baking dish. Cover with half the turkey; add remaining potatoes and then the rest of the turkey. Combine soup and seasonings and spread over turkey. Cover and bake in moderate oven (350°) 30 minutes. Uncover; top with cheese and bake about 15 minutes longer.

Creamy Turkey Hash
(Makes 4 to 6 servings)

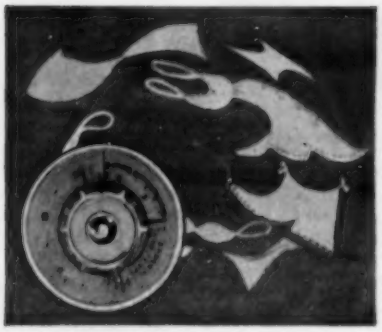
- ¼ cup butter
- ¼ cup flour
- 1 teaspoon salt
- ¼ teaspoon monosodium glutamate
- ⅛ teaspoon nutmeg
- 1 cup milk
- 3 cups diced cooked turkey
- ½ cup chopped green pepper
- 1 cup shredded mild process cheese

Melt butter; blend in flour and seasonings; gradually stir in milk, cook, stirring constantly till smooth and thick. Add the turkey and green pepper. Sprinkle half the cheese in an 8-inch round cake pan; add turkey mixture; top with remaining cheese; sprinkle top with paprika if desired. Bake in moderate oven (375°) about 20 minutes, or till cheese is melted.

Turkey-Macaroni Casserole
(Makes 6 to 8 servings)

- 1 7-ounce package macaroni
- ¼ cup turkey fat
- ¼ cup flour
- 1 cup turkey broth
- 1 cup milk
- 1 cup shredded process cheese
- 2½ cups diced cooked turkey
- 3 hard-cooked eggs, diced
- ½ cup pickle relish
- Salt and pepper

Cook macaroni in boiling salted water till tender; drain. Melt fat; blend in flour. Gradually stir in broth and milk; cook stirring constantly till smooth and thick. Remove from the heat and add ¾ of the cheese, turkey, eggs, relish, and season to taste with salt and pepper. Top with remaining cheese and bake in moderate oven (350°) about 25 minutes.



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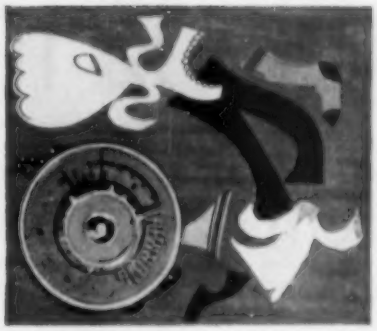

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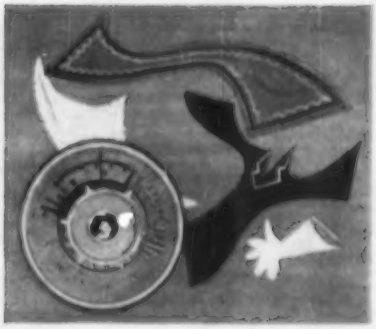

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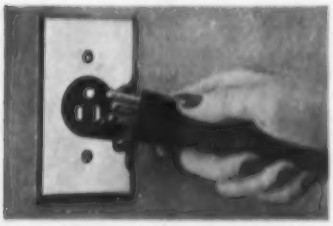

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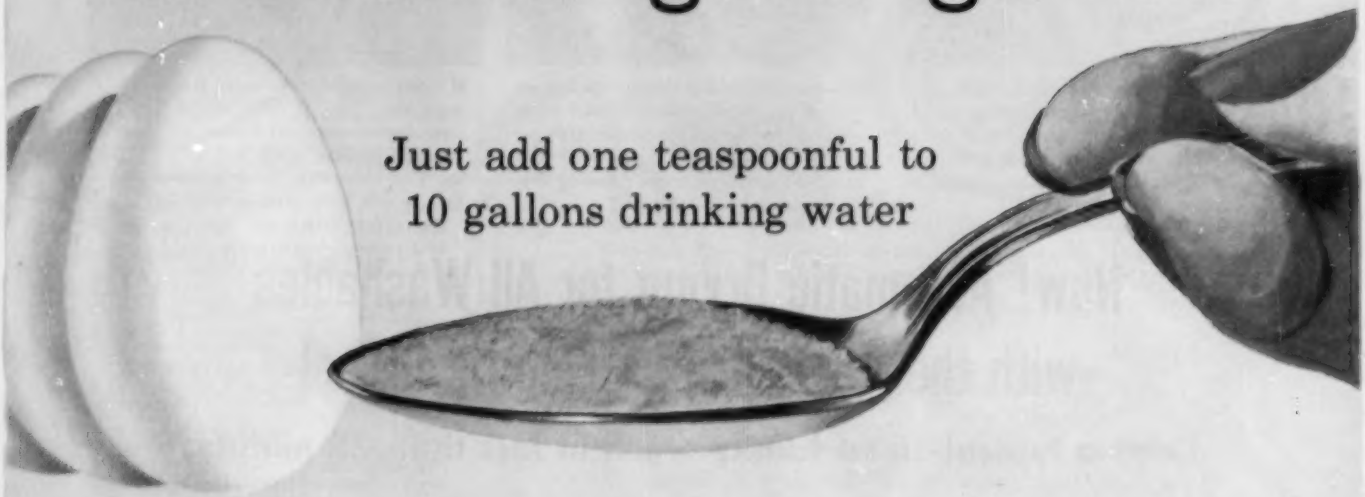

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Highly Concentrated: 1 pound treats 1,280 gallons drinking water (enough to last 100 hens about 8 months) when used at levels recommended for *maintenance* of high production.

Satisfaction guaranteed or your money back.

Livestock news

More blood testing for animal diseases

Blood testing to detect brucellosis and leptospirosis in cattle and swine and pullorum disease in poultry increased sharply in Illinois during the past fiscal year.

Diseased animals and samples of blood from animals are referred to the diagnostic laboratory at the University of Illinois College of Veterinary Medicine by veterinarians throughout the state.

The diagnostic laboratory received 98,325 blood and milk specimens and made 129,257 examinations in the past year. This is an increase of 29 percent in examinations and 24 percent in specimens over the previous year.

Dr. J. R. Pickard, laboratory supervisor says more than 62,000 blood tests were made for brucellosis, an increase of 16 percent over 1954-55. Blood testing for leptospirosis, a serious abortion-causing disease like brucellosis, numbered 31,350, up 49 percent. Pullorum tests were made on 27,358 specimens, an increase of 33 percent due to a new turkey testing program. Tests for vibriosis numbered 144, down about 45 percent.

Best sorghum grain and silage ratio for beef

A 1 to 1 ratio of sorghum grain to sorghum silage produced faster gains, at the least cost, and a $1 per hundred premium selling price over steers fed 1 to 3 or 1 to 2 ratios of grain to silage. Those on the 1 to 1 ration also shrank less enroute to market.

In the tests at the Fort Hays (Kansas) branch station, 800-pound steers on the 1:1 ratio gained 2.95 pounds daily; those on the 1:2 ratio, 2.70 pounds; those on the 1:3 ratio, 2.60 pounds. Cost of the feed for each 100 pounds' gain was $18.81, $19.61, and $20.33 for the 1:1, 1:2, and 1:3 rations, respectively.

The steers were on the fattening rations 150 days.

All were fed 1.5 pounds of cottonseed meal and 2.75 pounds of alfalfa hay per head per day in addition to the sorghum silage and grain.

Stilbestrol doubles beef profits

More evidence that stilbestrol can make big increases in beef profits is reported from the University of Minnesota's Northwest Station at Crookston.

Stilbestrol doubled beef profits in 1955-56 research, according to Homer D. Fausch, station animal husbandman.

Steers that had stilbestrol added to the ration returned an average of $34.84 per head over feed costs, compared to just $17.84 for steers that didn't get any stilbestrol.

Except for the stilbestrol, the rations were exactly the same for the two groups of steers. Feeding period covered 139 days.

Stilbestrol-fed steers dressed out almost 2 percent higher and had carcasses that graded a little better than steers without stilbestrol.

It took 9.37 pounds of ration to produce a pound of gain on steers in the stilbestrol lot, compared to 10.7 pounds when steers got no stilbestrol.

Stilbestrol ear implants

In preliminary results at the Kentucky Experiment Station, steers that had ear implants of either 1 or 2 pellets of stilbestrol outgained other test steers which got no implants or 3 pellets.

The 1-pellet group averaged 2.46 pounds daily gain per head, the 2-pellet group, 2.47 pounds per head. The no-implant group averaged a daily gain of only 1.72 pounds per head, while the 3-pellet group gained an average of 2.35 pounds per head daily. Results reported were on the first 56 days of the test.

Drench plus antibiotic gives best lamb gains

Lambs given one phenothiazine drench for control of internal parasites often make better gains when fed an antibiotic in their daily ration, according to research at Oregon State College.

The antibiotic seems to help lambs overcome the stress imposed on them by the parasites. Researchers theorize that the damage done by the parasites leaves the lambs more susceptible to attack by harmful bacteria. And feeding an antibiotic at a high enough level to control these bacteria helps the lambs make best gains from their feed.

No-mud watering tank

It's hard to find a hog wallow around tanks on the Donald Nelson farm, Des Moines County, Iowa. Nelson has a slick way of preventing this common nuisance. Before putting the tank into place, Nelson digs a trench directly below the watering tank. Railroad ties are then laid across the trench. Tank is placed on top of the railroad ties as shown in the picture below. As water is splashed over the sides, it runs into the trench below, preventing the formation of wallows.

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A. A. Ensminger, Moran, Kansas, says that the commercial mineral mixture containing phenothiazine he is now feeding his cattle gives far better results than any mineral mixture he has fed in the past.

Kansas Cattle Feeder Reports . . .

Outstanding results from mineral mixture containing Phenothiazine for worm control

One of the largest cattle-feeding operations in eastern Kansas is owned and operated by A. A. Ensminger, on his farm of over 2,500 acres at Moran.

Speaking of his experiences with mineral mixtures, Mr. Ensminger says, "I've fed carloads of mineral mixtures to thousands of head of cattle, but I've never found anything that gives one-half the results we get from the commercial mineral mixture containing phenothiazine I am presently using."

Phenothiazine in mineral mixtures helps keep down worms and lets cattle get full nourishment from the feed they eat. Works equally well in feed, salt or mineral mixtures—and with dairy calves as well as beef cattle. Many manufacturers of feed and minerals now offer products containing phenothiazine. Ask your supplier for them. For free booklet on worm control, write Du Pont, Room 2533-N, Wilmington, Delaware.

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Gate stops from 1″ scrap pipe designed by Elza Bills, Boone County, Missouri, are helpful on cattle shed gates. Bills drives the stop in the ground a few inches and uses the same depression for the stop most of the time.

Photographs: Pease; Imig

Using a door as a ladder is the answer Wilbur Kleck, Delta, Ohio, has for getting into the haymow. Note how both doors fit around the feed carrier track.

Changing a tire is easier when spare is on side rather than under truck. Morris Fleming, Iroquois County, Illinois, made mount by welding 3″ pipe to 8″ square iron plate and 7″ diameter round plate.

Scientific MYZON Formula In Drinking Water

STOPS LAYING SLUMPS FAST

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You Don't Change Feed

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GOES TO WORK IN MINUTES

Diagram showing how MYZON fortified water by-passes the feed in the crop, stomach, and gizzard and goes directly to the intestines in minutes.

Research scientists believe MYZON's exclusive formula goes to work **in minutes!** The reason? MYZON POULTRY BUILDER is carried by the drinking water (rather than feed). Thus most MYZON by-passes the feed in the stomach, crop, gizzard, to go **direct** to the intestinal tract where it is absorbed and promptly carried to all parts of the body! No wonder then MYZON works so fast—so quickly wards off the diseases listed above.

Egg Production Jumps From 8 to 90 Per Day. "When I started using Myzon last fall my pullets had awful colds and were just laying 8 eggs a day. I got Myzon and treated for sick birds and it sure did the job in a hurry. Before long they were better and laying from 75 to 90 eggs a day."

Mrs. Arthur Bell—Bowen, Illinois

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Carl Nietnestein—Emerald, Nebraska

Keeps Egg Production Higher Right Through Damp, Changing Fall Weather!

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Now Scientists Say That Many Laying Slumps Are Due to Chronic Respiratory Diseases

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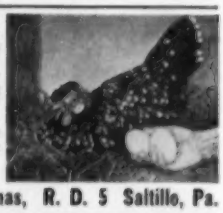

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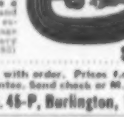

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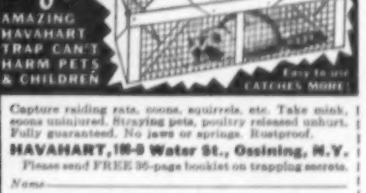

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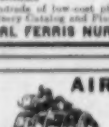

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For teen-age cooks

Let's bake sugar cookies

Photograph: Hopkins

Get in on the fun of Christmas-cooky baking at your house. These crisp Holiday Sugar Cookies are easy to make and can be cut out and trimmed in any way you would like

Fifteen-year-old Carol Reinartz, Oakland, Minnesota, sent us her own favorite recipe for sugar cookies. It's an especially good one for decorating and delicious when it comes to eating.

Here are some secrets to help you make your cookies come out just right. For thin, crisp cookies roll the dough to just ⅛-inch on a well-floured surface. Measure thickness with a ruler for true accuracy. In order to roll dough easily be sure to chill it from 3 to 4 hours first.

You can use regular cooky cutters to cut your cookies into holiday shapes or make your own Christmas-ornament ball cutter. To do this use a small size frozen-juice can and remove one end. Shape into a Christmas-ornament ball form using a pliers to help make the point.

Sugar Cookies (Makes 4 to 5 dozen cookies)

1 cup softened butter
1½ cups sugar
2 eggs
1 teaspoon vanilla
3 cups sifted flour
½ teaspoon soda

Cream butter. Add sugar gradually and beat till light and fluffy. Add eggs, one at a time, beating after each addition. Stir in vanilla. Sift together flour and soda; add gradually to creamed mixture. Chill dough thoroughly 3 to 4 hours. Roll on well-floured surface very thin to ⅛-inch. Cut into holiday shapes. Trim as desired with colored sugars and candy decorettes. Bake in moderate oven (375°) 6 to 8 minutes or till light brown. Cool slightly on baking sheet; finish cooling on rack.

Photograph: Hopkins

Try a fabric conditioner

Fabric conditioner, added to the last rinse, coats fibers and makes them soft, gives them a "like new" look. Harmless to any fabric, suitable for the washer, this conditioner is especially nice for knitted cottons, diapers, terry cloth towels, shag rugs, blankets, and stiff work clothes.

Dark cottons and colored socks shed lint better and look brighter with fabric conditioner. Line-dried clothes will shed wrinkles, even when dried inside.

Follow manufacturer's directions for amount to use and time to add this washing compound; for use in both the automatic or conventional washer.

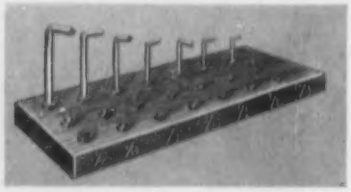
All around the farm. A page written by our readers

For sprinkling sand on icy areas, I have found our lawn fertilizer cart to be perfect. The uniform spread of sand on icy surfaces is much safer than the spread that can be made by hand.—*F. D., Michigan.*

For cleaning small oilways in crankshafts, or gas lines and other similar jobs, I use an electric shaver cleaning brush. I soldered the brush handle to the end of a suitable length of stiff wire.—*W. J., Illinois.*

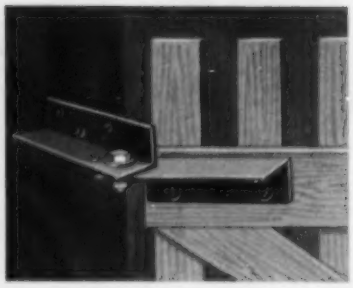
To improvise overload springs for our car when using it to tow a heavy trailer, I use a half-length of coil car spring. By jacking up the body with a bumper jack I can slip the piece of coil spring between the car frame and the axle. If a means for holding the top or bottom in place is necessary, a block can be secured to the frame. On our car all we need to do is to lower the bumper jack with the springs set in place and they will stay put. They can be removed easily.—*M. T., Wisconsin.*

I keep socket setscrews of assorted sizes in a brass or iron block drilled and



tapped for each size screw, as shown. The back row serves as holder of proper wrench for each size of screw.—*C. H. W., New Hampshire.*

To prevent splitting skids when moving small buildings, we drill a hole in the skids big enough to take a ½″ pipe as a bushing. This pipe is as long as the thickness of the skid. Through this pipe we pass the cable used for dragging the skid-mounted portable building. If extra strength is needed, bolts can be placed through the skid at right angles to the bushing, and just in front of it.—*C. S. C., Illinois.*



I make emergency hinges from any angle iron of suitable strength for the job, and a bolt, as illustrated. Even a discarded iron bed rail can be turned into hinges like this with no more tools than a hacksaw, drill, and wrench.—*Z. O., Michigan.*

When drilling a hole with brace and bit, I place a rubber band around the bit at the depth I want the hole. I drill until the rubber band reaches the surface of the wood. This does away with guesswork, and the hole can be drilled in one operation.—*J. H., Minnesota.*

I use a fitted drawer in my workbench to keep assorted grades of sandpaper separate and easy to reach. Slanted grooves in the sides of the drawer hold thin dividers of hardboard or plywood. I cut a wide, deep notch in the top of each divider so the sandpaper can be grasped.—*H. E. C., Nebraska.*

To start a fire in a tank heater quickly and easily, I use sawdust saturated with fuel oil. It is very economical and safe.—*C. J., South Dakota.*

For a saw blade protector, when the blade is in the tool box, and a holder for it when I file the saw, I ripped a slot lengthwise in the edge of a 1x6 as long as the blade. To hold the saw for filing the teeth, I clamp the saw with teeth exposed above the edge of the board. To protect the saw in the tool box, I slip the saw into the slot with saw teeth at the bottom of the deep cut. I find this protector very useful.—*H. B., Missouri.*

To open holes in ice for ice fishing, I made a chisel from a 6″ length of an old truck spring leaf. I cut a V in one end of the steel blade, shaped like a sickle. I then welded the blade to a 5′ length of ½″ pipe, filled the pipe with sand for proper weight, and capped it as shown. This chisel has proved very effective in opening holes through ice of any thickness.—*A. K., South Dakota.*

The silage feeder and elevator shown have worked even better than I expected. I built the feeder with 8 sides, and with a cone built up in the exact center. This cone spreads the ensilage to the outside of the feeder within the reach of cattle. My feeder holds 1½ to 2 tons of silage, and handles 80 head of feeders easily. I set the feeder a little distance from the silo so cattle can feed all around it. The short elevator is a secondhand one, motor driven, and moves the silage into the feeder as I throw the silage down. There is no second handling of the feed.—*R. K., Minnesota.*

Successful Farming invites you to share your ideas with the rest of our readers. We pay $5 for each item upon publication, but regret we cannot return those we don't use.—The Editors

THEY'RE BEEFING UP

YOUR BEEF FEEDING PROFITS

Sioux City, Iowa—How feeders everywhere can make even greater reductions in their cost of producing beef in 1957 is now being proved out in a 57 county surrounding area.

Called "Beef Project 57", this is a three-way cooperative program between Pfizer, feed manufacturing companies and feeders to demonstrate the best practical application of new scientific developments in beef feeding from many sources.

These new developments have been coming so thick and fast that few feeders have been able to keep up with all of them.

On one thing everybody agrees: A good supplement can stretch grain and help feeders make greater use of low-quality roughages in producing choice quality beef.

The big question has been, what—besides protein—should a good supplement supply, and in what combination and amounts to make the most dependable and economical gains?

In the last couple of years, for example, many feeders have been getting excellent results by using stilbestrol. More recently others have reported even better results with Terramycin. *But when the two were combined in the same supplement the extra gains and savings in feed were greater than with either supplement alone.*

New knowledge of the way dozens of different feed ingredients *work together* has made the older single-purpose supplements as old fashioned as the longhorn. It has shown the importance of a supplement combining the right amounts of several growth and health-boosting ingredients.

Beef Project 57 is now proving out the best combinations for the feeds of the future—along with the facts and figures on how you can fit them into your own feeding-for-profit program *this year!*

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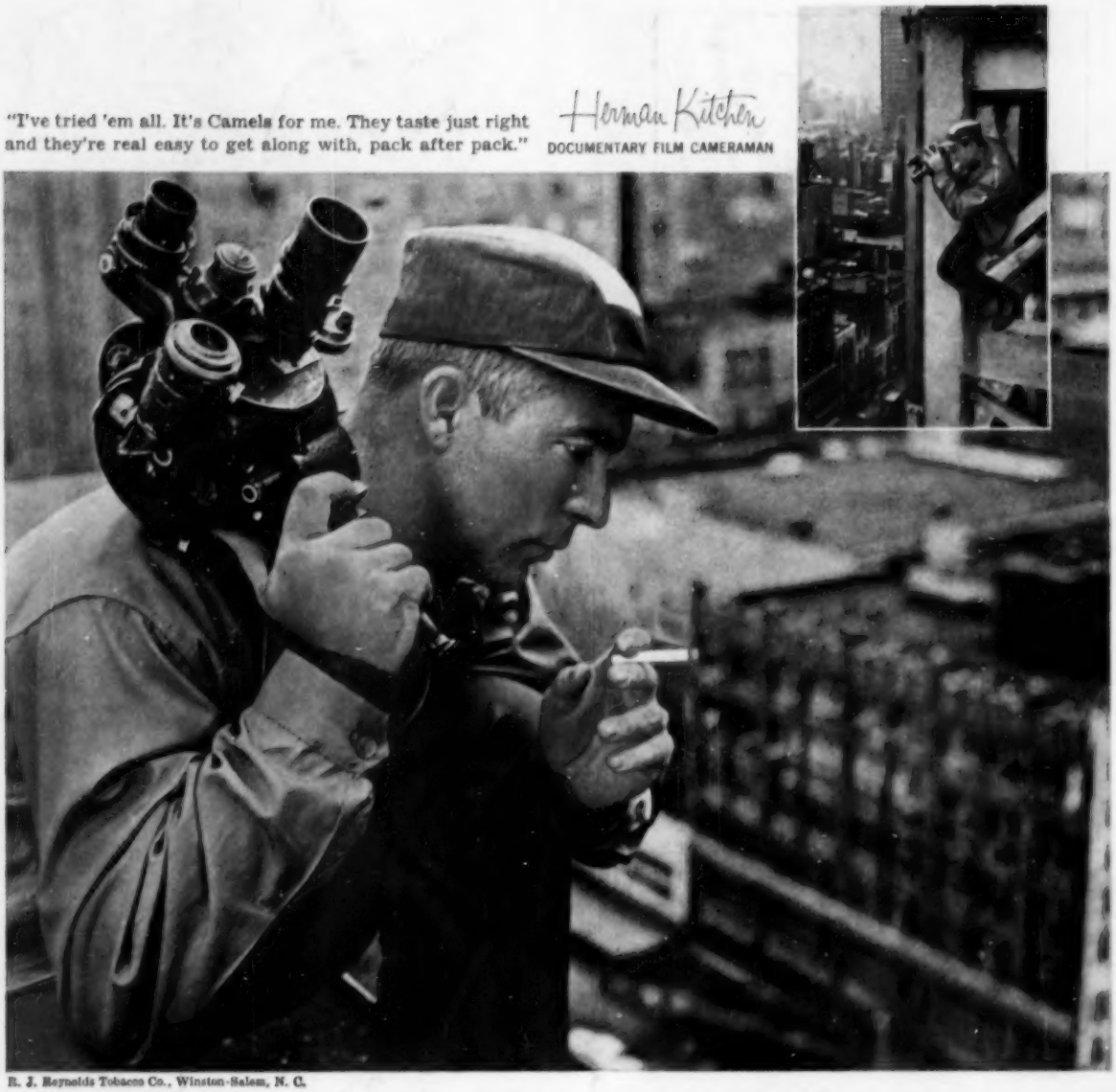

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